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.

United States

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.

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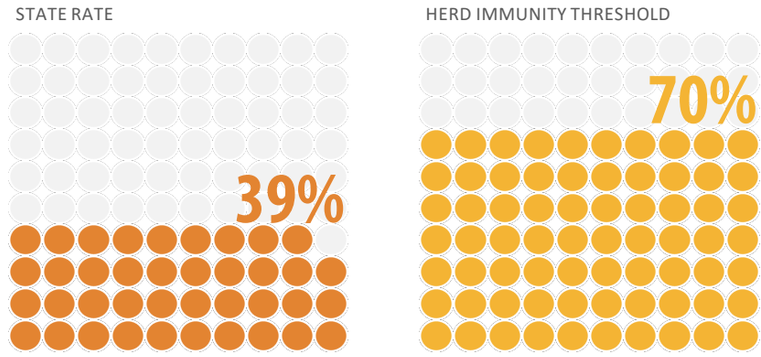
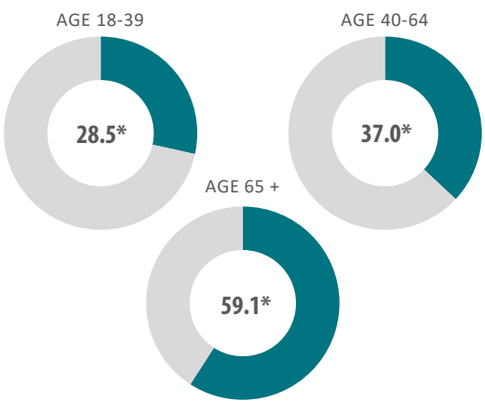
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold



Flu Vaccination Rates by Age



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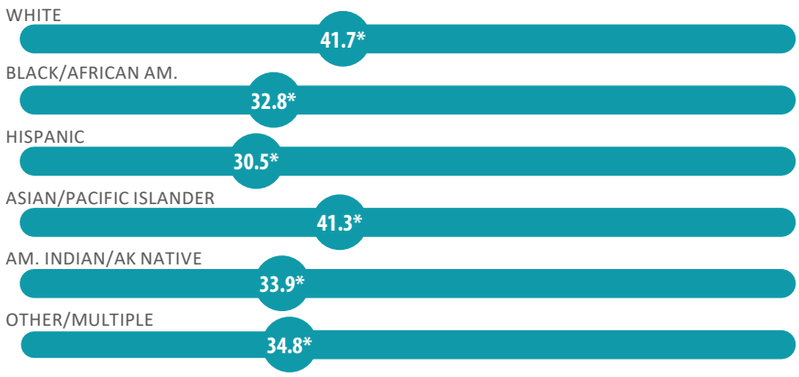
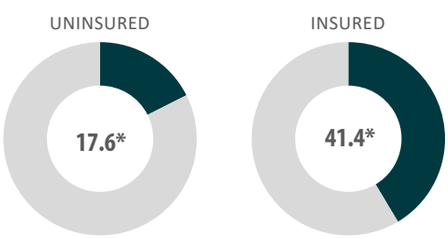


Flu Vaccination Rates by Insurance Status



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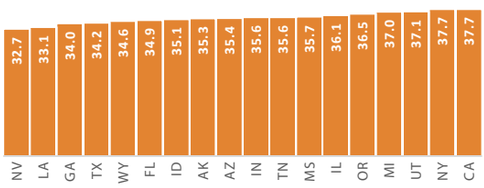
State vs. National Adult Flu Vaccination Rates

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



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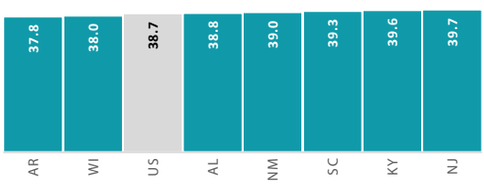

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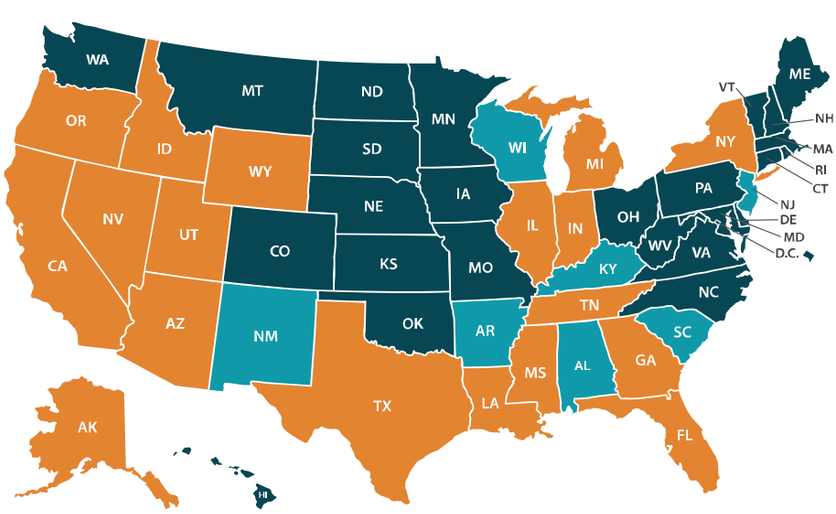

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

United States

	United States	
	Percent	Diff. from All Adults
All Adults Age 18+	38.7	
Age		
18-39	28.5	-10.2*
40-64	37.2	-1.5*
65+	59.4	20.7*
Race/Ethnicity		
White	41.7	3.0*
Black/African American	32.8	-5.9*
Hispanic	30.9	-7.7*
Asian/Pacific Islander	41.4	2.7*
American Indian/Alaska Native	33.9	-4.8*
Other/multiple	34.9	-3.8*
Sex		
Male	35.4	-3.3*
Female	41.8	3.1*
Chronic Condition Status		
No chronic conditions	35.4	-3.3*
1+ chronic conditions	49.1	10.5*
Health Insurance Coverage		
Uninsured	17.6	-21.1*
Insured	41.6	2.9*
Access to Care		
No personal doctor	20.1	-18.6*
Has personal doctor	44.1	5.4*
Educational Attainment (Age 25+)		
All Adults Age 25+	40.2	
Less than high school	34.0	-6.1*
High school graduate	35.6	-4.6*
Some college or associate's degree	38.8	-1.4*
Bachelor's degree or higher	47.9	9.2*
Household Income		
Less than $25,000	34.8	-3.9*
$25,000 to $49,999	36.5	-2.2*
$50,000 to $74,999	38.6	-0.1
$75,000 or more	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.
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Alaska

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.

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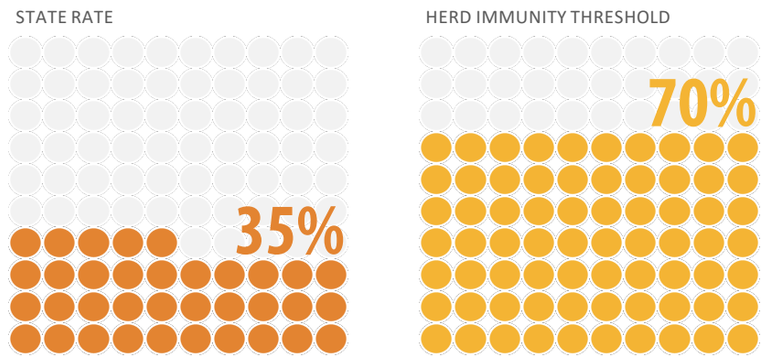

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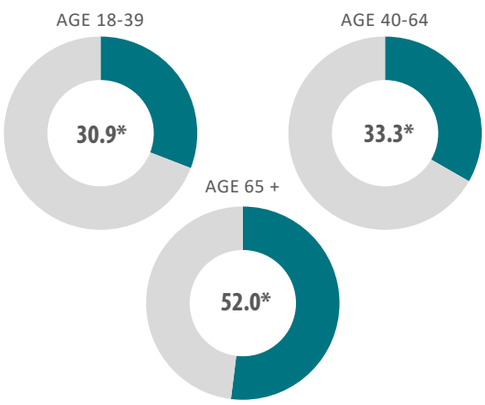
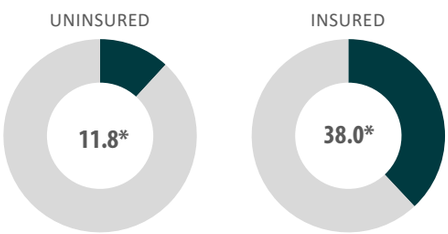


Flu Vaccination Rates by Race/Ethnicity

Flu Vaccination Rates by Insurance Status



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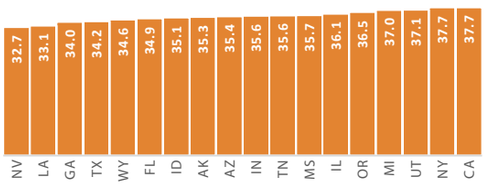

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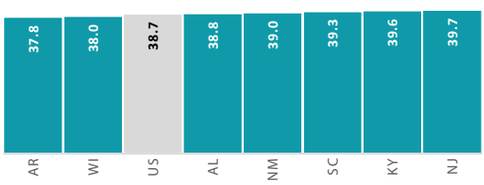

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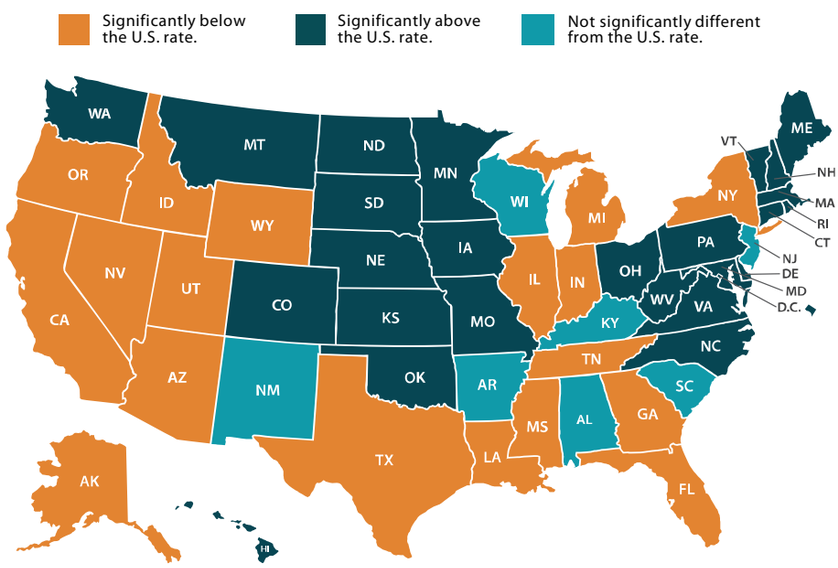

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Alaska

	Alaska			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	35.3		-3.4*	38.7	
Age					
18-39	30.9	-4.4*	2.4	28.5	-10.2*
40-64	33.3	-2.0*	-3.9*	37.2	-1.5*
65+	52.0	16.7*	-7.4*	59.4	20.7*
Race/Ethnicity					
White	35.6	0.3	-6.1*	41.7	3.0*
Black/African American	30.1	-5.1	-2.6	32.8	-5.9*
Hispanic	29.0	-6.3	-2.0	30.9	-7.7*
Asian/Pacific Islander	37.8	2.5	-3.6	41.4	2.7*
American Indian/Alaska Native	37.6	2.4	3.7	33.9	-4.8*
Other/multiple	33.7	-1.6	-1.2	34.9	-3.8*
Sex					
Male	32.9	-2.4*	-2.5*	35.4	-3.3*
Female	37.6	2.4*	-4.2*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	33.7	-1.6*	-1.7	35.4	-3.3*
1+ chronic conditions	41.4	6.1*	-7.8*	49.1	10.5*
Health Insurance Coverage					
Uninsured	11.8	-23.4*	-5.7*	17.6	-21.1*
Insured	38.0	2.7*	-3.6*	41.6	2.9*
Access to Care					
No personal doctor	23.4	-11.9*	3.2*	20.1	-18.6*
Has personal doctor	41.1	5.8*	-3.0*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	35.5		-4.6*	40.2	
Less than high school	24.0	-11.6*	-10.1*	34.0	-6.1*
High school graduate	29.3	-6.2*	-6.3*	35.6	-4.6*
Some college or associate's degree	32.2	-3.3*	-6.5*	38.8	-1.4*
Bachelor's degree or higher	48.2	15.9*	0.2	47.9	9.2*
Household Income					
Less than $25,000	26.7	-8.5*	-8.0*	34.8	-3.9*
$25,000 to $49,999	31.9	-3.4*	-4.6*	36.5	-2.2*
$50,000 to $74,999	37.7	2.4*	-0.9	38.6	-0.1
$75,000 or more	40.0	4.7*	-2.8*	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.
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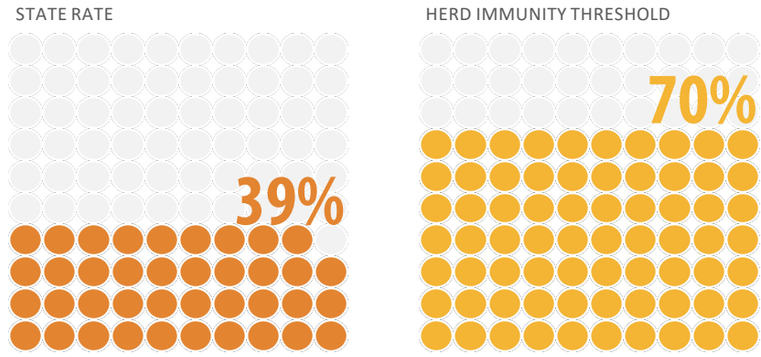

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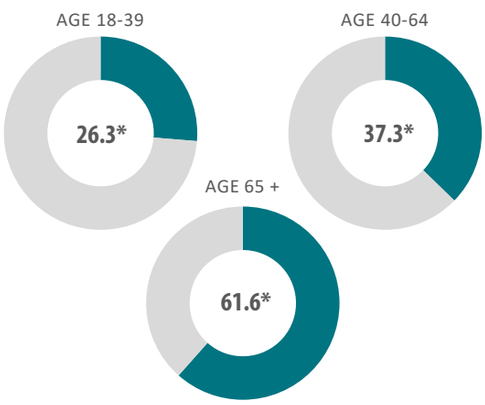

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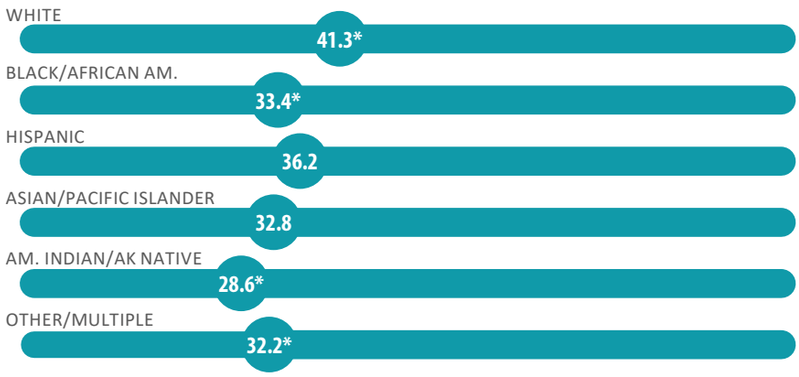
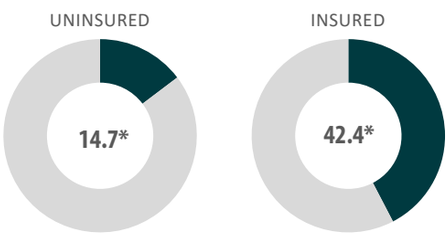


Flu Vaccination Rates by Insurance Status



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State vs. National Adult Flu Vaccination Rates

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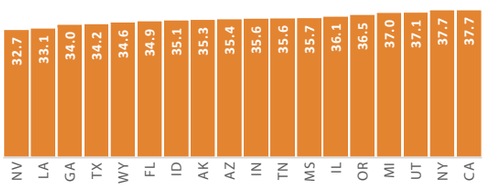

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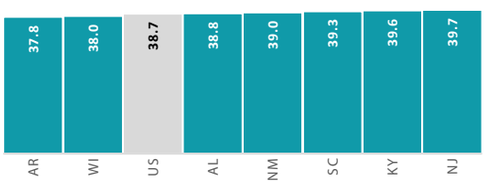

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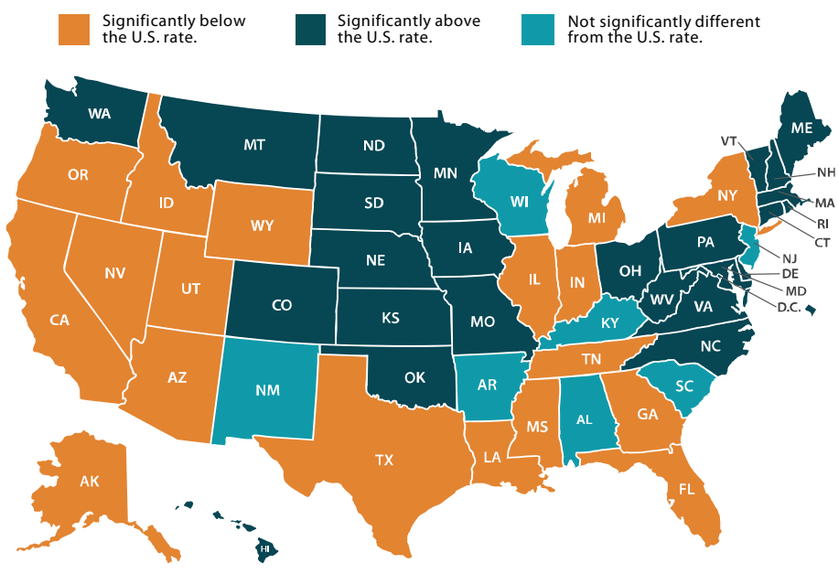

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Alabama

	Alabama			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	38.8		0.1	38.7	
Age					
18-39	26.3	-12.5*	-2.2*	28.5	-10.2*
40-64	37.3	-1.5*	0.1	37.2	-1.5*
65+	61.6	22.8*	2.2*	59.4	20.7*
Race/Ethnicity					
White	41.3	2.5*	-0.4	41.7	3.0*
Black/African American	33.4	-5.4*	0.6	32.8	-5.9*
Hispanic	36.2	-2.6	5.2	30.9	-7.7*
Asian/Pacific Islander	32.8	-6.0	-8.6	41.4	2.7*
American Indian/Alaska Native	28.6	-10.2*	-5.3	33.9	-4.8*
Other/multiple	32.2	-6.5*	-2.6	34.9	-3.8*
Sex					
Male	36.2	-2.6*	0.8	35.4	-3.3*
Female	41.0	2.3*	-0.8	41.8	3.1*
Chronic Condition Status					
No chronic conditions	34.7	-4.1*	-0.8	35.4	-3.3*
1+ chronic conditions	48.7	10.0*	-0.4	49.1	10.5*
Health Insurance Coverage					
Uninsured	14.7	-24.1*	-2.9*	17.6	-21.1*
Insured	42.4	3.6*	0.7	41.6	2.9*
Access to Care					
No personal doctor	19.4	-19.4*	-0.7	20.1	-18.6*
Has personal doctor	44.1	5.3*	0.0	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	40.1		-0.1	40.2	
Less than high school	36.2	-3.9*	2.2	34.0	-6.1*
High school graduate	37.0	-3.1*	1.4	35.6	-4.6*
Some college or associate's degree	38.8	-1.3	0.0	38.8	-1.4*
Bachelor's degree or higher	48.0	8.0*	0.1	47.9	9.2*
Household Income					
Less than $25,000	35.1	-3.7*	0.3	34.8	-3.9*
$25,000 to $49,999	37.5	-1.3	1.0	36.5	-2.2*
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Arkansas

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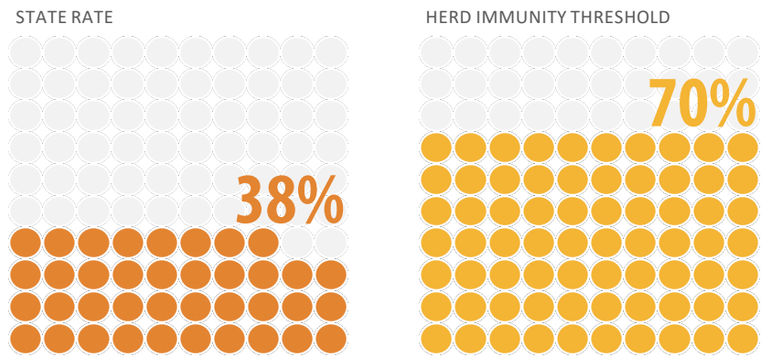
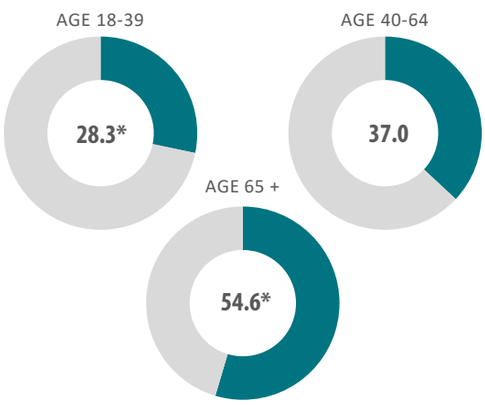


Flu Vaccination Rates by Age



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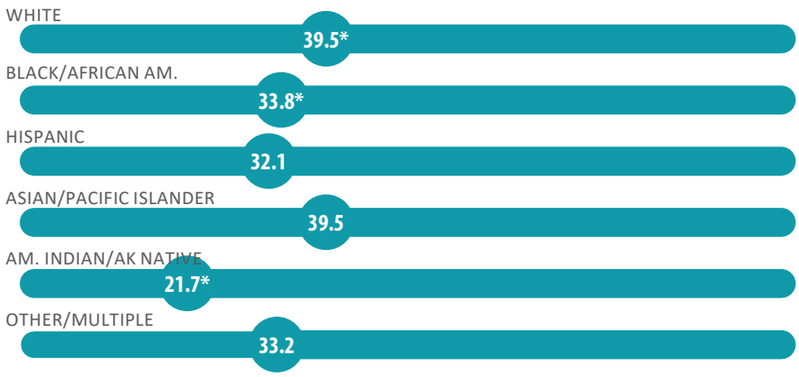

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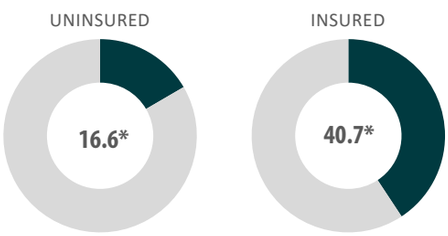

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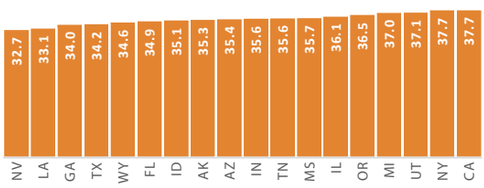

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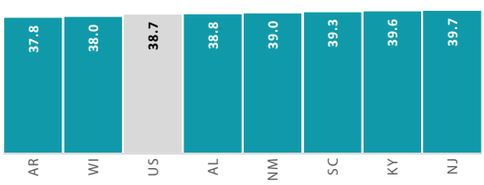

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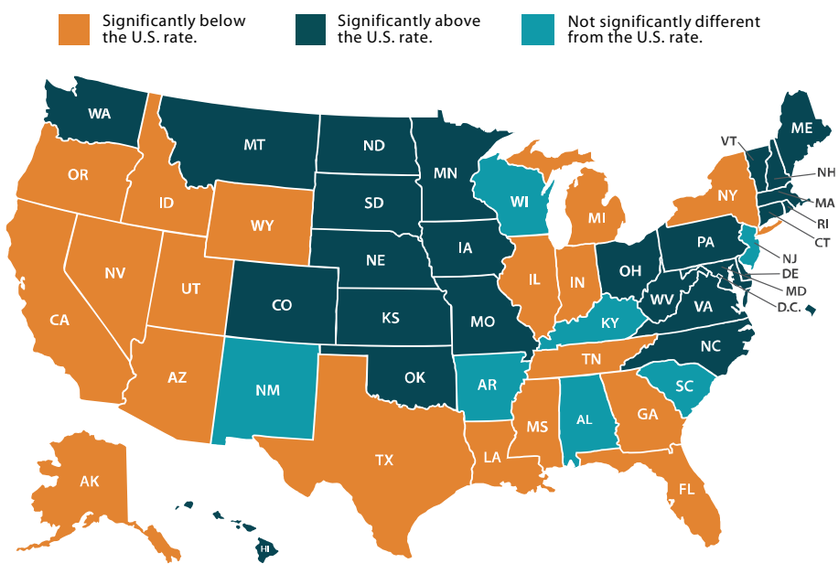

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Arkansas

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40-64	37.0	-0.8	-0.2	37.2	-1.5*
65+	54.6	16.8*	-4.8*	59.4	20.7*
Race/Ethnicity					
White	39.5	1.8*	-2.2*	41.7	3.0*
Black/African American	33.8	-4.0*	1.0	32.8	-5.9*
Hispanic	32.1	-5.6	1.2	30.9	-7.7*
Asian/Pacific Islander	39.5	1.8	-1.9	41.4	2.7*
American Indian/Alaska Native	21.7	-16.1*	-12.2*	33.9	-4.8*
Other/multiple	33.2	-4.6	-1.7	34.9	-3.8*
Sex					
Male	33.2	-4.6*	-2.2*	35.4	-3.3*
Female	42.2	4.4*	0.4	41.8	3.1*
Chronic Condition Status					
No chronic conditions	35.0	-2.8*	-0.4	35.4	-3.3*
1+ chronic conditions	45.0	7.2*	-4.2*	49.1	10.5*
Health Insurance Coverage					
Uninsured	16.6	-21.2*	-1.0	17.6	-21.1*
Insured	40.7	3.0*	-0.9	41.6	2.9*
Access to Care					
No personal doctor	19.2	-18.6*	-1.0	20.1	-18.6*
Has personal doctor	42.3	4.5*	-1.8*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	39.1		-1.0	40.2	
Less than high school	34.8	-4.3*	0.8	34.0	-6.1*
High school graduate	36.5	-2.6*	0.9	35.6	-4.6*
Some college or associate's degree	36.7	-2.4*	-2.1	38.8	-1.4*
Bachelor's degree or higher	49.4	12.7*	1.4	47.9	9.2*
Household Income					
Less than $25,000	32.7	-5.0*	-2.0*	34.8	-3.9*
$25,000 to $49,999	36.2	-1.6	-0.3	36.5	-2.2*
$50,000 to $74,999	39.6	1.9	1.1	38.6	-0.1
$75,000 or more	44.8	7.0*	2.0	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.
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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.

Arizona

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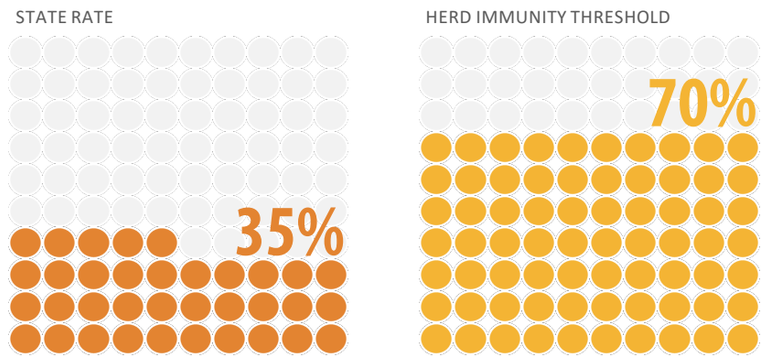
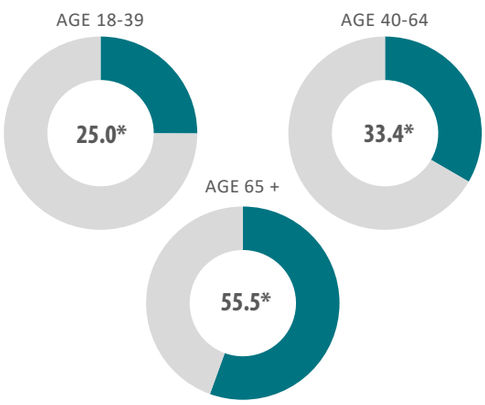
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold

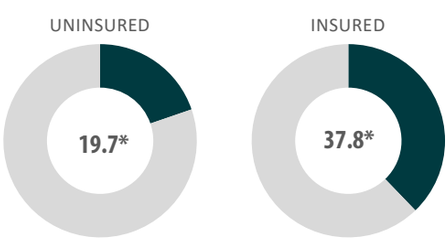


Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity

Flu Vaccination Rates by Insurance Status



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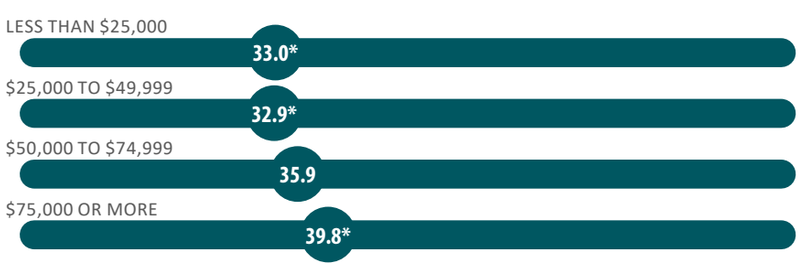

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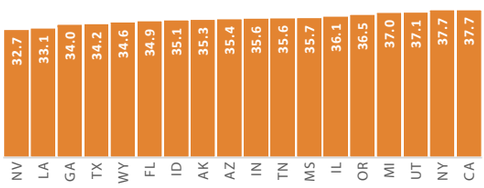
State vs. National Adult Flu Vaccination Rates

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



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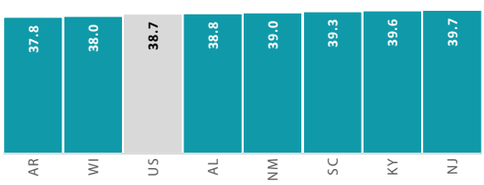

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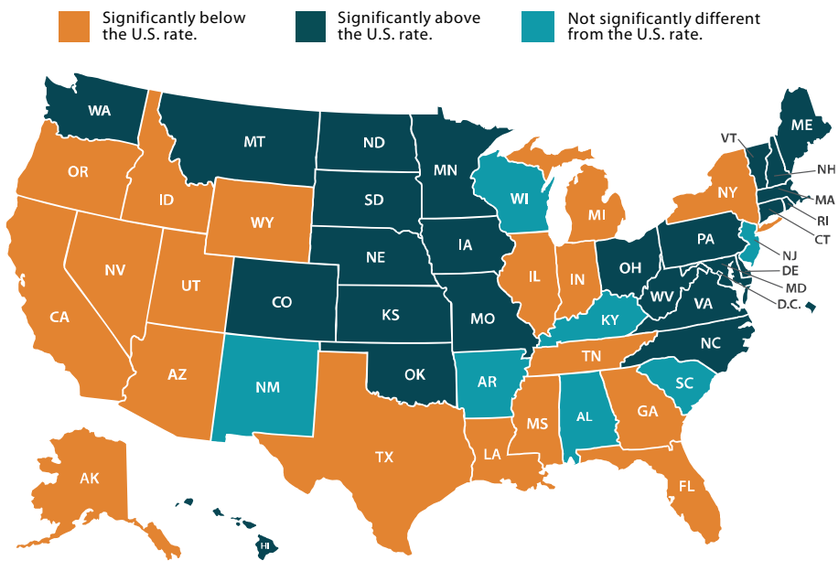

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Arizona

	Arizona			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	35.4		-3.3*	38.7	
Age					
18-39	25.0	-10.4*	-3.5*	28.5	-10.2*
40-64	33.4	-2.0*	-3.8*	37.2	-1.5*
65+	55.5	20.1*	-3.9*	59.4	20.7*
Race/Ethnicity					
White	38.2	2.8*	-3.5*	41.7	3.0*
Black/African American	32.8	-2.6	0.0	32.8	-5.9*
Hispanic	29.5	-5.9*	-1.4	30.9	-7.7*
Asian/Pacific Islander	36.6	1.2	-4.8	41.4	2.7*
American Indian/Alaska Native	37.7	2.3	3.8	33.9	-4.8*
Other/multiple	33.0	-2.4	-1.9	34.9	-3.8*
Sex					
Male	31.9	-3.5*	-3.5*	35.4	-3.3*
Female	38.8	3.4*	-3.0*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	32.3	-3.1*	-3.1*	35.4	-3.3*
1+ chronic conditions	44.8	9.4*	-4.4*	49.1	10.5*
Health Insurance Coverage					
Uninsured	19.7	-15.7*	2.2	17.6	-21.1*
Insured	37.8	2.4*	-3.8*	41.6	2.9*
Access to Care					
No personal doctor	19.7	-15.7*	-0.4	20.1	-18.6*
Has personal doctor	41.3	5.8*	-2.8*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	37.2		-3.0*	40.2	
Less than high school	32.8	-4.4*	-1.2	34.0	-6.1*
High school graduate	31.2	-5.9*	-4.4*	35.6	-4.6*
Some college or associate's degree	36.6	-0.6	-2.2*	38.8	-1.4*
Bachelor's degree or higher	44.8	8.2*	-3.2*	47.9	9.2*
Household Income					
Less than $25,000	33.0	-2.4*	-1.8	34.8	-3.9*
$25,000 to $49,999	32.9	-2.6*	-3.6*	36.5	-2.2*
$50,000 to $74,999	35.9	0.5	-2.7*	38.6	-0.1
$75,000 or more	39.8	4.4*	-3.0*	42.8	4.1*

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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.

California

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.

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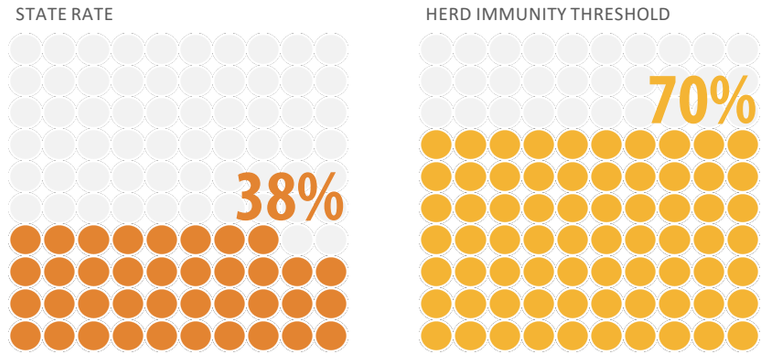
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold



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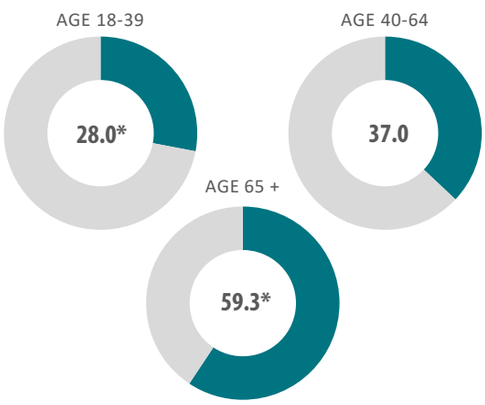

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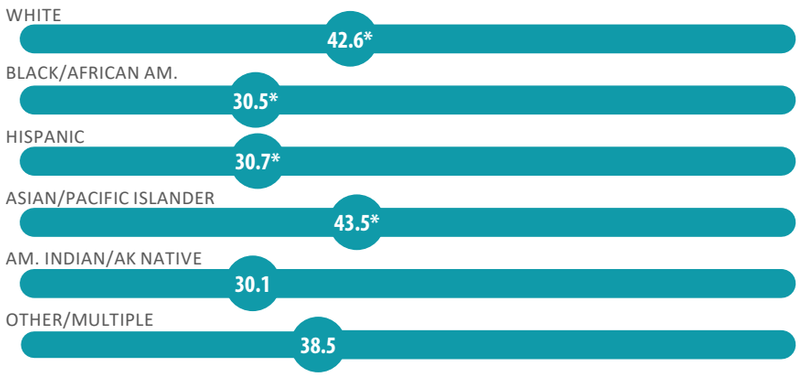
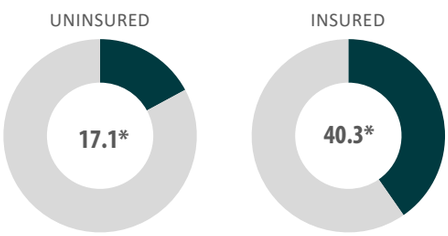


Flu Vaccination Rates by Insurance Status



Flu Vaccination Rates by Household Income

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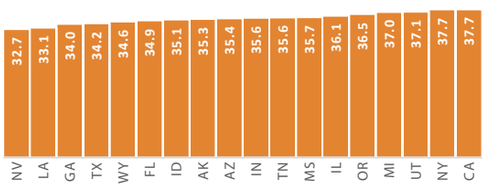

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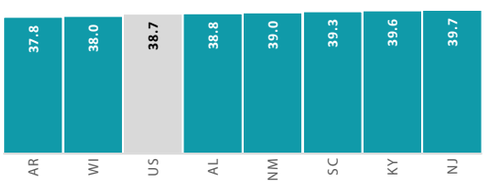

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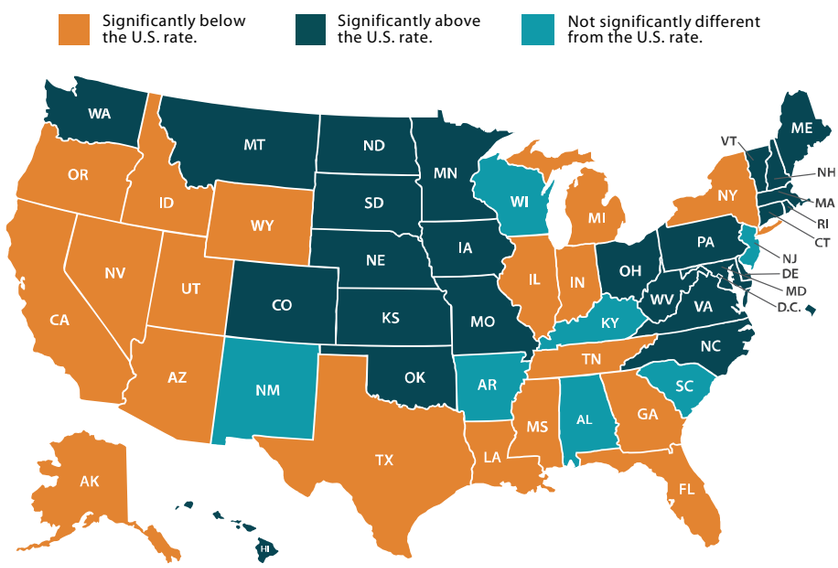

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

California

	California			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	37.7		-1.0*	38.7	
Age					
18-39	28.0	-9.7*	-0.5	28.5	-10.2*
40-64	37.0	-0.7	-0.2	37.2	-1.5*
65+	59.3	21.6*	-0.1	59.4	20.7*
Race/Ethnicity					
White	42.6	4.9*	0.9	41.7	3.0*
Black/African American	30.5	-7.3*	-2.3	32.8	-5.9*
Hispanic	30.7	-7.0*	-0.2	30.9	-7.7*
Asian/Pacific Islander	43.5	5.8*	2.1*	41.4	2.7*
American Indian/Alaska Native	30.1	-7.6	-3.8	33.9	-4.8*
Other/multiple	38.5	0.8	3.7*	34.9	-3.8*
Sex					
Male	34.8	-2.9*	-0.6	35.4	-3.3*
Female	40.5	2.8*	-1.3*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	34.7	-3.1*	-0.7	35.4	-3.3*
1+ chronic conditions	49.0	11.3*	-0.1	49.1	10.5*
Health Insurance Coverage					
Uninsured	17.1	-20.6*	-0.5	17.6	-21.1*
Insured	40.3	2.6*	-1.3*	41.6	2.9*
Access to Care					
No personal doctor	19.6	-18.1*	-0.5	20.1	-18.6*
Has personal doctor	43.6	5.9*	-0.5	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	39.4		-0.8	40.2	
Less than high school	33.2	-6.2*	-0.8	34.0	-6.1*
High school graduate	33.6	-5.7*	-1.9*	35.6	-4.6*
Some college or associate's degree	38.1	-1.3	-0.7	38.8	-1.4*
Bachelor's degree or higher	47.3	9.3*	-0.6	47.9	9.2*
Household Income					
Less than $25,000	33.1	-4.6*	-1.7	34.8	-3.9*
$25,000 to $49,999	35.6	-2.1*	-0.9	36.5	-2.2*
$50,000 to $74,999	37.7	0.0	-0.9	38.6	-0.1
$75,000 or more	41.4	3.7*	-1.4*	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.
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Colorado

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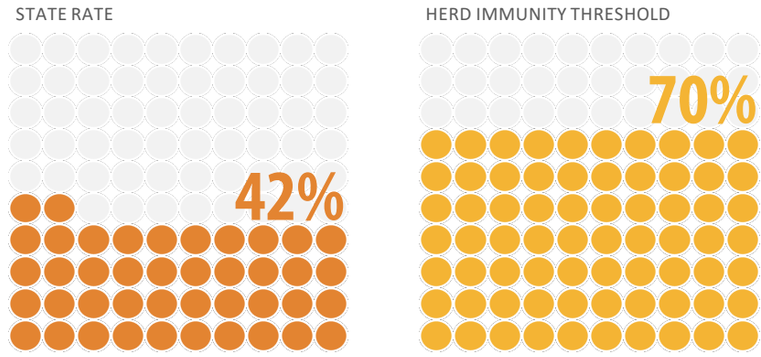
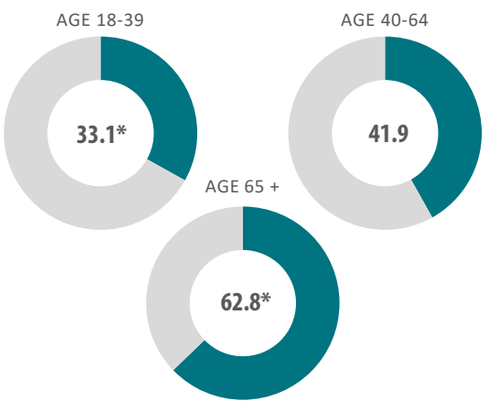
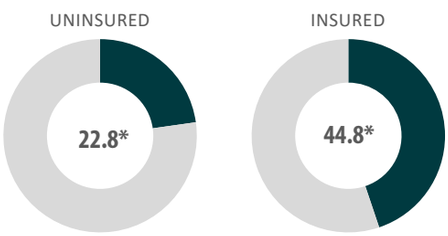


Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity

Flu Vaccination Rates by Insurance Status



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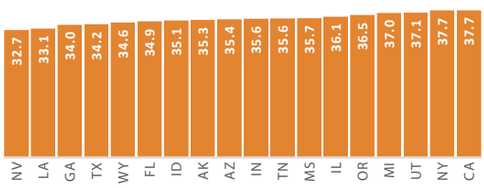

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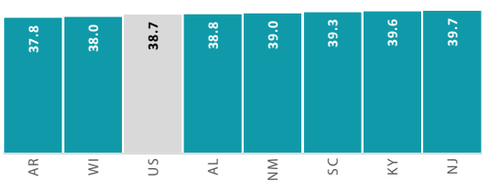

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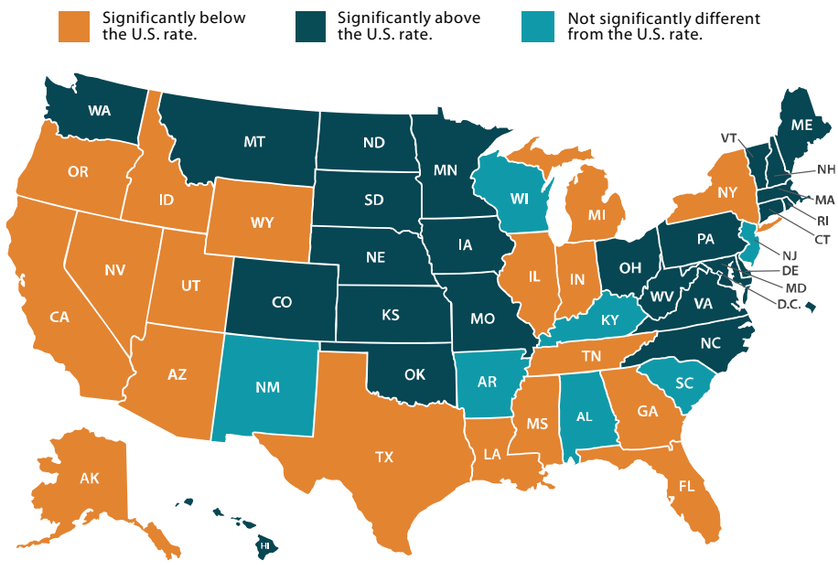

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Colorado

	Colorado			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	42.2		3.6*	38.7	
Age					
18-39	33.1	-9.1*	4.6*	28.5	-10.2*
40-64	41.9	-0.4	4.7*	37.2	-1.5*
65+	62.8	20.6*	3.4*	59.4	20.7*
Race/Ethnicity					
White	43.8	1.6*	2.1*	41.7	3.0*
Black/African American	39.6	-2.6	6.8*	32.8	-5.9*
Hispanic	37.9	-4.3*	7.0*	30.9	-7.7*
Asian/Pacific Islander	43.6	1.3	2.2	41.4	2.7*
American Indian/Alaska Native	36.9	-5.3	3.0	33.9	-4.8*
Other/multiple	33.0	-9.3*	-1.9	34.9	-3.8*
Sex					
Male	37.9	-4.3*	2.6*	35.4	-3.3*
Female	46.5	4.3*	4.7*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	39.6	-2.6*	4.2*	35.4	-3.3*
1+ chronic conditions	52.9	10.7*	3.8*	49.1	10.5*
Health Insurance Coverage					
Uninsured	22.8	-19.5*	5.2*	17.6	-21.1*
Insured	44.8	2.6*	3.2*	41.6	2.9*
Access to Care					
No personal doctor	22.8	-19.4*	2.7*	20.1	-18.6*
Has personal doctor	49.2	6.9*	5.1*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	43.8		3.6*	40.2	
Less than high school	40.3	-3.4*	6.3*	34.0	-6.1*
High school graduate	36.8	-7.0*	1.2	35.6	-4.6*
Some college or associate's degree	39.8	-3.9*	1.1	38.8	-1.4*
Bachelor's degree or higher	51.2	11.4*	3.3*	47.9	9.2*
Household Income					
Less than $25,000	36.3	-5.9*	1.5	34.8	-3.9*
$25,000 to $49,999	37.8	-4.4*	1.3	36.5	-2.2*
$50,000 to $74,999	42.5	0.3	3.9*	38.6	-0.1
$75,000 or more	47.0	4.8*	4.2*	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.
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Connecticut

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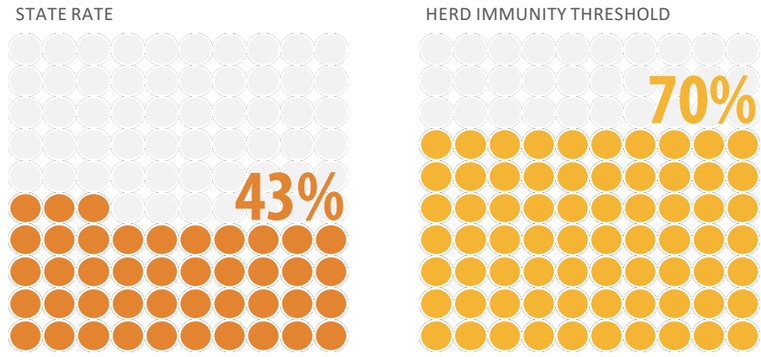
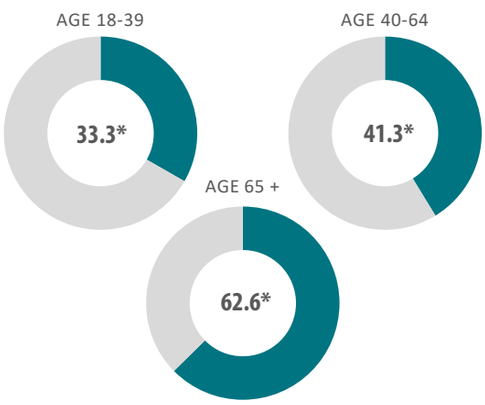
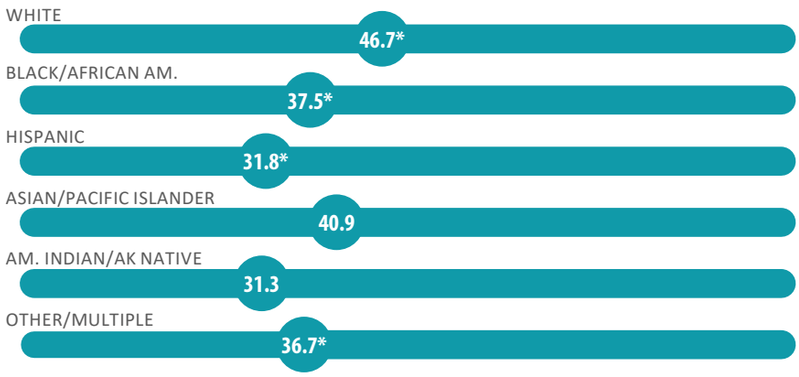


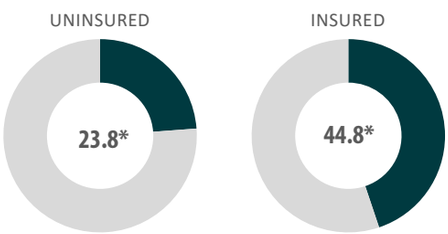
Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity



Flu Vaccination Rates by Insurance Status

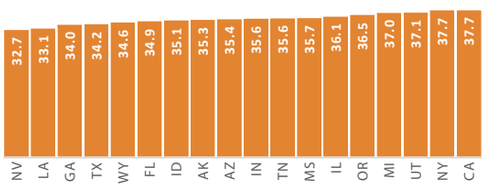


Flu Vaccination Rates by Household Income

* 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.



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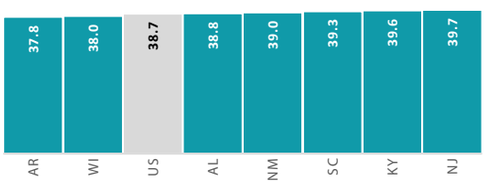

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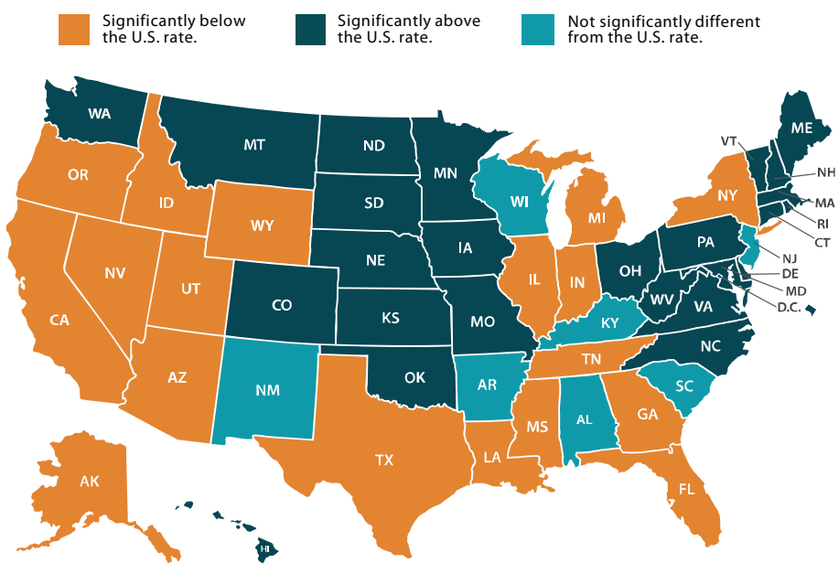

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Connecticut

	Connecticut			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	43.3		4.6*	38.7	
Age					
18-39	33.3	-10.0*	4.8*	28.5	-10.2*
40-64	41.3	-2.0*	4.1*	37.2	-1.5*
65+	62.6	19.3*	3.2*	59.4	20.7*
Race/Ethnicity					
White	46.7	3.4*	5.0*	41.7	3.0*
Black/African American	37.5	-5.8*	4.7*	32.8	-5.9*
Hispanic	31.8	-11.5*	0.8	30.9	-7.7*
Asian/Pacific Islander	40.9	-2.4	-0.5	41.4	2.7*
American Indian/Alaska Native	31.3	-12.1	-2.6	33.9	-4.8*
Other/multiple	36.7	-6.6*	1.8	34.9	-3.8*
Sex					
Male	40.0	-3.3*	4.6*	35.4	-3.3*
Female	46.3	3.0*	4.5*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	40.5	-2.8*	5.1*	35.4	-3.3*
1+ chronic conditions	52.6	9.3*	3.5*	49.1	10.5*
Health Insurance Coverage					
Uninsured	23.8	-19.5*	6.2*	17.6	-21.1*
Insured	44.8	1.5*	3.2*	41.6	2.9*
Access to Care					
No personal doctor	23.1	-20.2*	3.0*	20.1	-18.6*
Has personal doctor	46.8	3.5*	2.7*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	44.9		4.7*	40.2	
Less than high school	39.5	-5.4*	5.4*	34.0	-6.1*
High school graduate	39.9	-5.0*	4.3*	35.6	-4.6*
Some college or associate's degree	42.5	-2.3*	3.8*	38.8	-1.4*
Bachelor's degree or higher	51.2	8.7*	3.3*	47.9	9.2*
Household Income					
Less than $25,000	38.9	-4.4*	4.1*	34.8	-3.9*
$25,000 to $49,999	40.0	-3.3*	3.5*	36.5	-2.2*
$50,000 to $74,999	41.3	-2.0	2.8*	38.6	-0.1
$75,000 or more	47.1	3.8*	4.3*	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

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.

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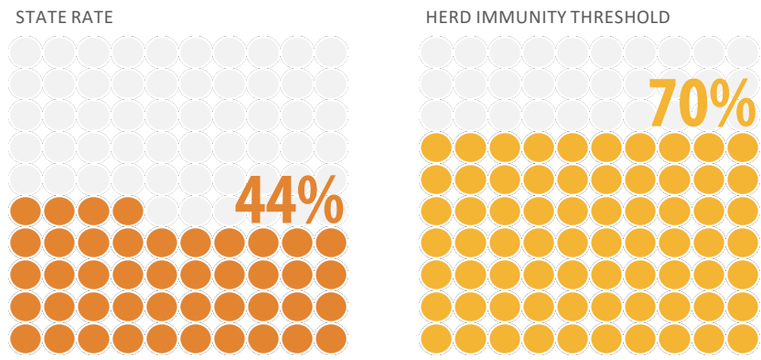
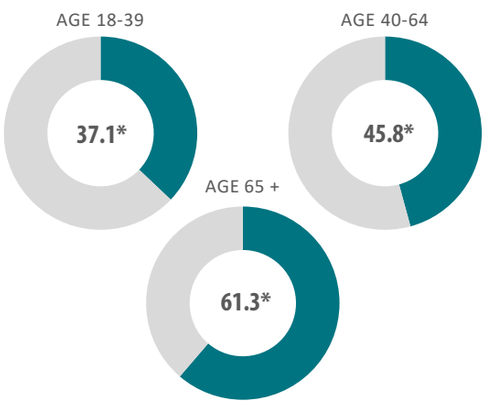
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold

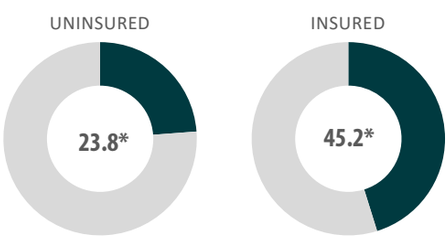


Flu Vaccination Rates by Age

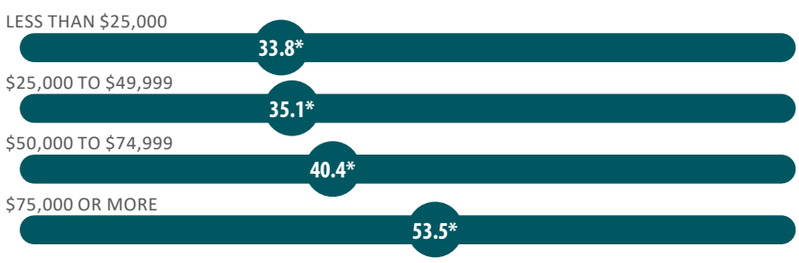


Flu Vaccination Rates by Race/Ethnicity

Flu Vaccination Rates by Insurance Status



Flu Vaccination Rates by Household Income



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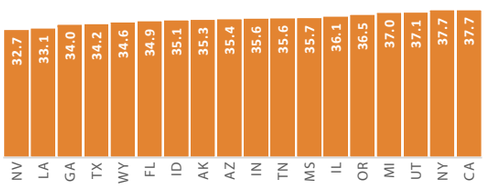
State vs. National Adult Flu Vaccination Rates

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



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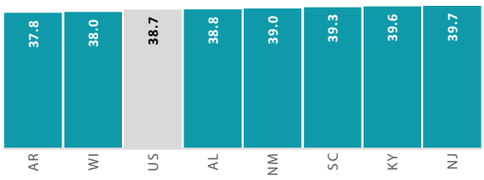

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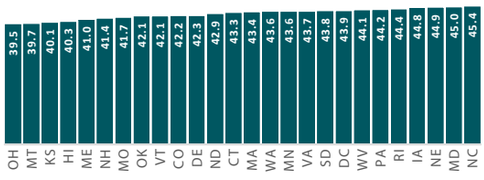

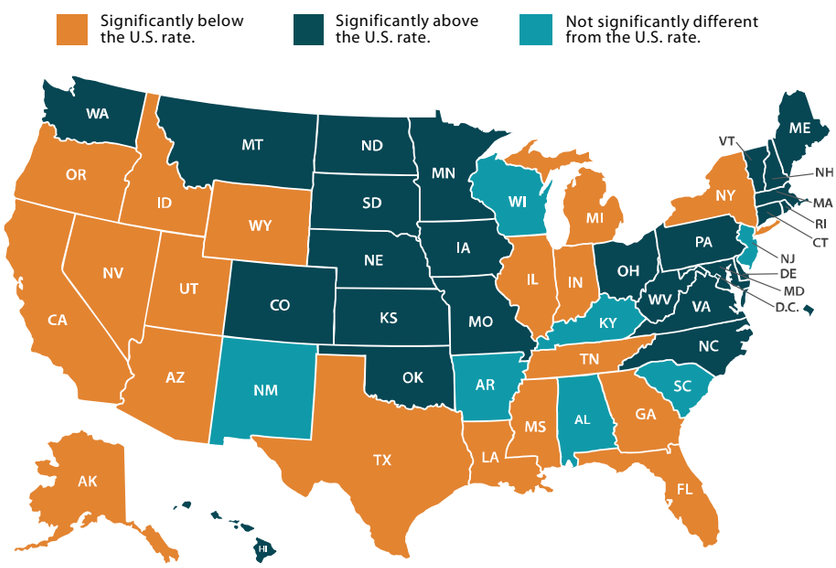

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

District of Columbia

	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
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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.

Delaware

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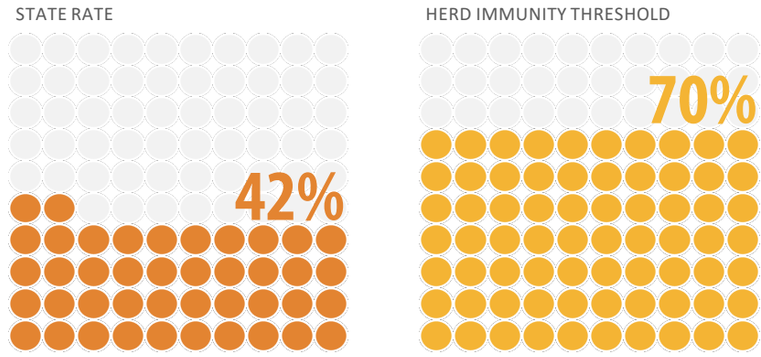
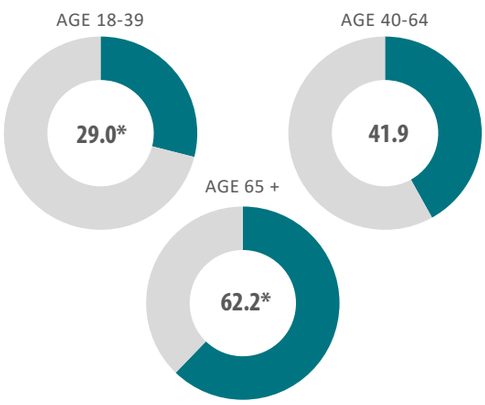
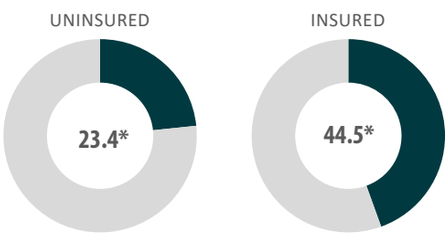


Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity

Flu Vaccination Rates by Insurance Status



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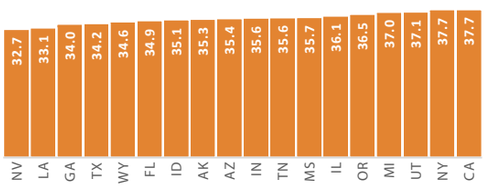

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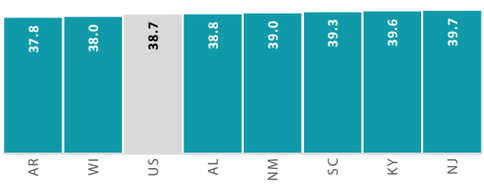

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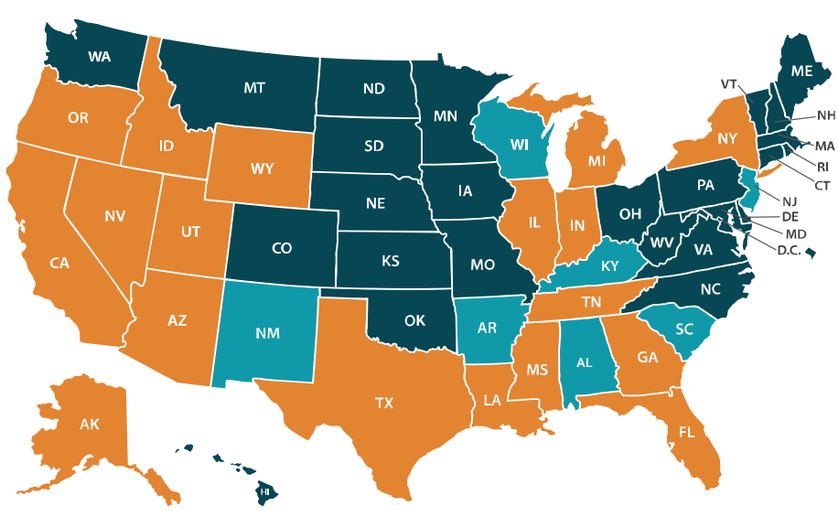

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40-64	41.9	-0.3	4.7*	37.2	-1.5*
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Race/Ethnicity					
White	45.7	3.4*	4.0*	41.7	3.0*
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Other/multiple	32.6	-9.6*	-2.2	34.9	-3.8*
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Male	37.9	-4.4*	2.5*	35.4	-3.3*
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Household Income					
Less than $25,000	37.3	-5.0*	2.5*	34.8	-3.9*
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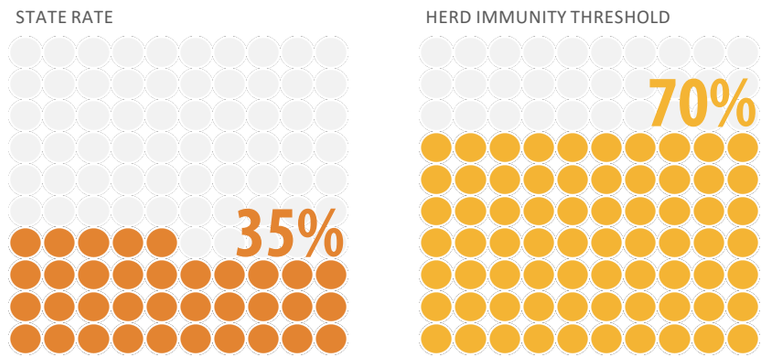

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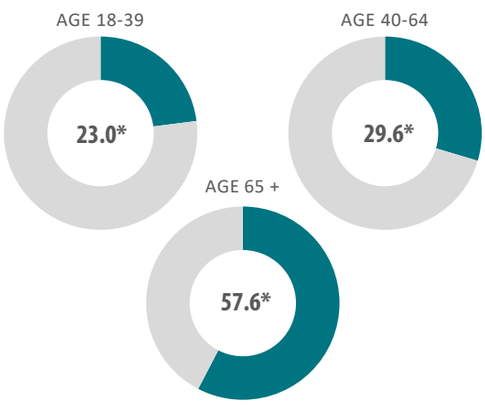

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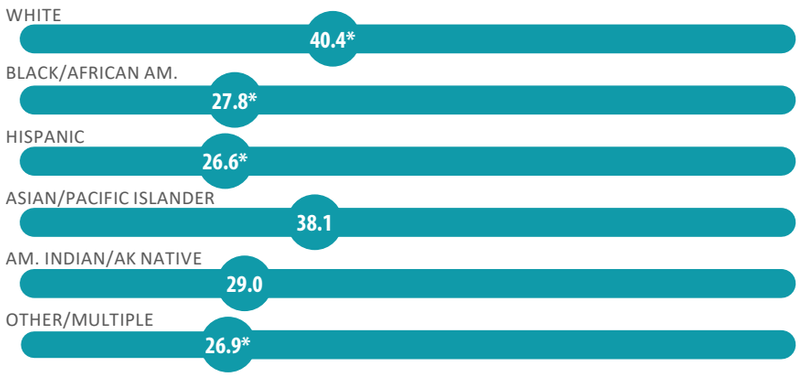

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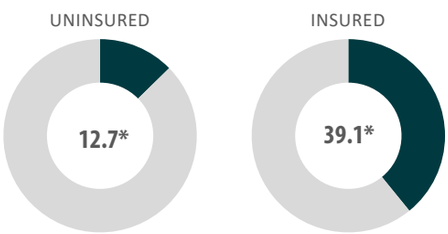

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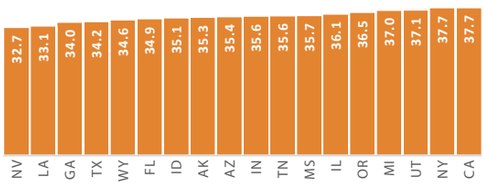

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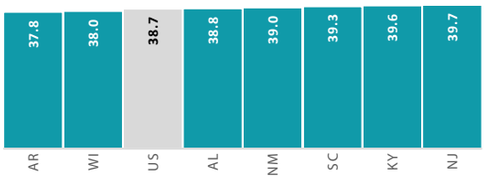

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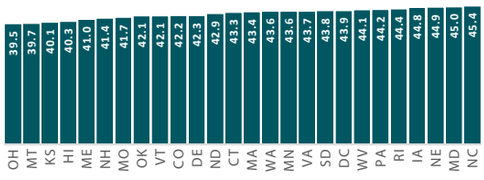

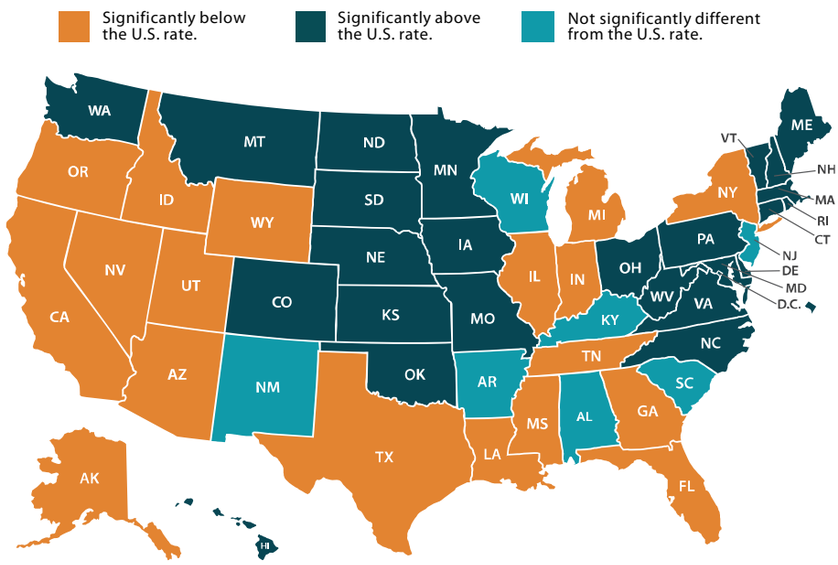

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Florida

	Florida			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	34.9		-3.8*	38.7	
Age					
18-39	23.0	-11.9*	-5.5*	28.5	-10.2*
40-64	29.6	-5.3*	-7.6*	37.2	-1.5*
65+	57.6	22.7*	-1.8*	59.4	20.7*
Race/Ethnicity					
White	40.4	5.5*	-1.3*	41.7	3.0*
Black/African American	27.8	-7.1*	-5.0*	32.8	-5.9*
Hispanic	26.6	-8.3*	-4.4*	30.9	-7.7*
Asian/Pacific Islander	38.1	3.2	-3.3	41.4	2.7*
American Indian/Alaska Native	29.0	-5.9	-4.8	33.9	-4.8*
Other/multiple	26.9	-8.0*	-7.9*	34.9	-3.8*
Sex					
Male	33.3	-1.6*	-2.1*	35.4	-3.3*
Female	36.6	1.7*	-5.2*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	31.3	-3.6*	-4.1*	35.4	-3.3*
1+ chronic conditions	46.4	11.5*	-2.8*	49.1	10.5*
Health Insurance Coverage					
Uninsured	12.7	-22.2*	-4.9*	17.6	-21.1*
Insured	39.1	4.2*	-2.5*	41.6	2.9*
Access to Care					
No personal doctor	16.4	-18.5*	-3.7*	20.1	-18.6*
Has personal doctor	41.8	6.9*	-2.3*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	36.4		-3.8*	40.2	
Less than high school	32.4	-4.0*	-1.7	34.0	-6.1*
High school graduate	33.6	-2.7*	-2.0*	35.6	-4.6*
Some college or associate's degree	35.6	-0.7	-3.1*	38.8	-1.4*
Bachelor's degree or higher	41.7	6.0*	-6.3*	47.9	9.2*
Household Income					
Less than $25,000	32.8	-2.1*	-1.9	34.8	-3.9*
$25,000 to $49,999	33.9	-1.0	-2.6*	36.5	-2.2*
$50,000 to $74,999	33.4	-1.5	-5.2*	38.6	-0.1
$75,000 or more	39.4	4.5*	-3.4*	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

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.

Georgia

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.

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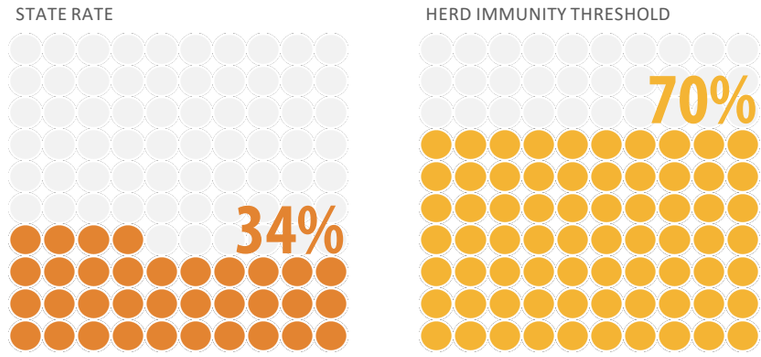
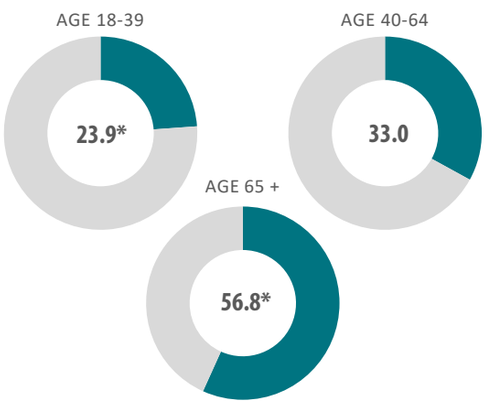
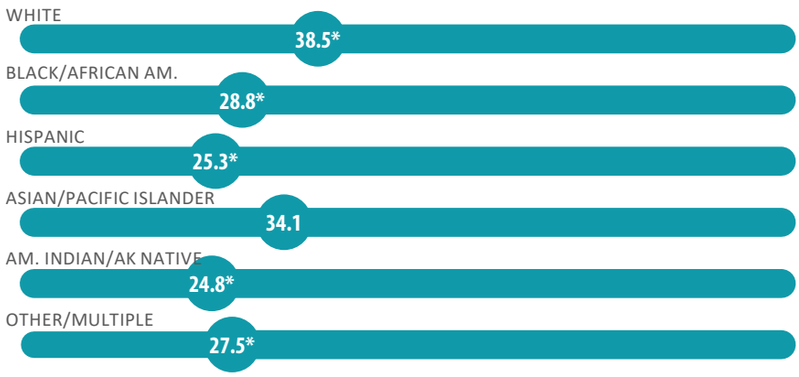
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold



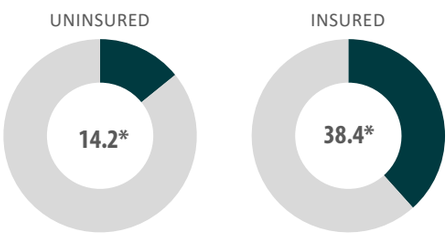
Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity



Flu Vaccination Rates by Insurance Status

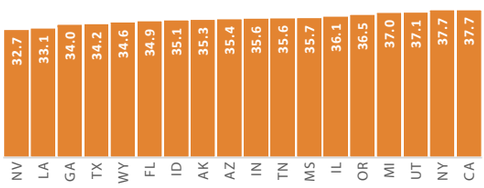


Flu Vaccination Rates by Household Income

* 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.



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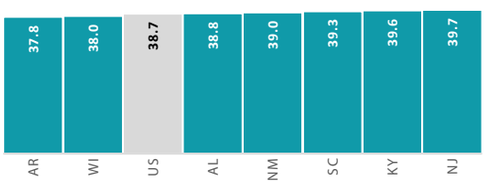

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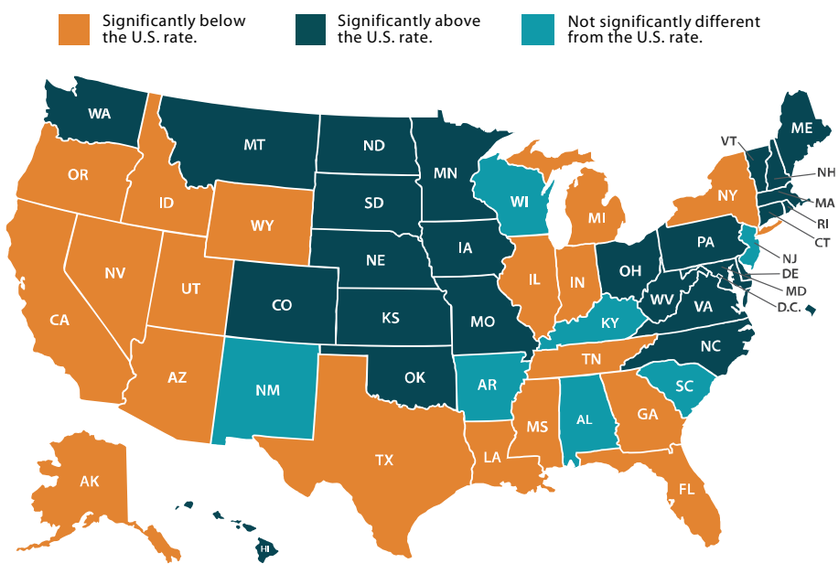

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Georgia

	Georgia			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	34.0		-4.7*	38.7	
Age					
18-39	23.9	-10.2*	-4.7*	28.5	-10.2*
40-64	33.0	-1.0	-4.2*	37.2	-1.5*
65+	56.8	22.7*	-2.6*	59.4	20.7*
Race/Ethnicity					
White	38.5	4.5*	-3.2*	41.7	3.0*
Black/African American	28.8	-5.3*	-4.0*	32.8	-5.9*
Hispanic	25.3	-8.7*	-5.6*	30.9	-7.7*
Asian/Pacific Islander	34.1	0.1	-7.3*	41.4	2.7*
American Indian/Alaska Native	24.8	-9.2*	-9.1*	33.9	-4.8*
Other/multiple	27.5	-6.6*	-7.4*	34.9	-3.8*
Sex					
Male	32.2	-1.9*	-3.2*	35.4	-3.3*
Female	35.9	1.8*	-6.0*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	30.7	-3.3*	-4.7*	35.4	-3.3*
1+ chronic conditions	44.8	10.8*	-4.3*	49.1	10.5*
Health Insurance Coverage					
Uninsured	14.2	-19.9*	-3.4*	17.6	-21.1*
Insured	38.4	4.3*	-3.3*	41.6	2.9*
Access to Care					
No personal doctor	17.3	-16.7*	-2.8*	20.1	-18.6*
Has personal doctor	40.3	6.3*	-3.8*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	35.7		-4.4*	40.2	
Less than high school	29.7	-6.0*	-4.3*	34.0	-6.1*
High school graduate	30.4	-5.3*	-5.1*	35.6	-4.6*
Some college or associate's degree	34.8	-0.9	-4.0*	38.8	-1.4*
Bachelor's degree or higher	44.2	9.3*	-3.8*	47.9	9.2*
Household Income					
Less than $25,000	29.2	-4.9*	-5.6*	34.8	-3.9*
$25,000 to $49,999	31.7	-2.3*	-4.8*	36.5	-2.2*
$50,000 to $74,999	35.9	1.9	-2.7*	38.6	-0.1
$75,000 or more	39.8	5.7*	-3.1*	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.
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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.

Hawaii

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.

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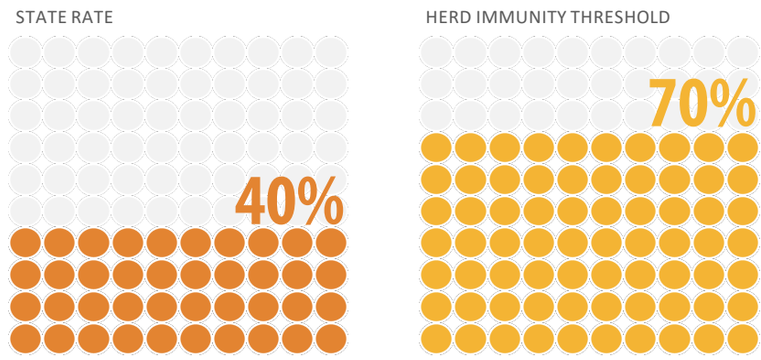
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold



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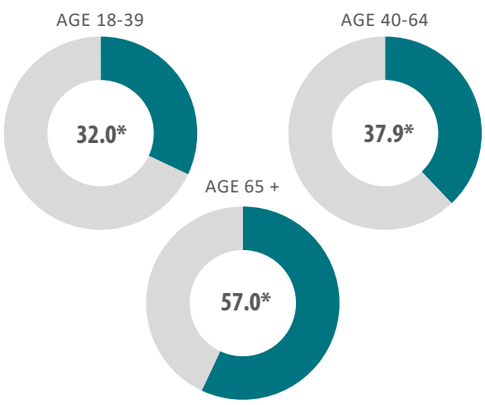
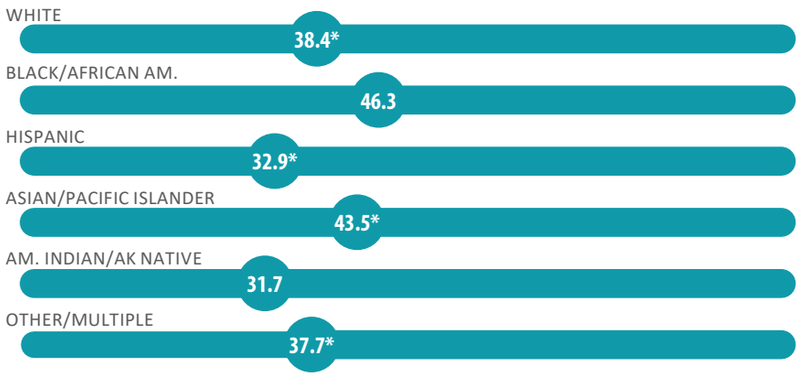
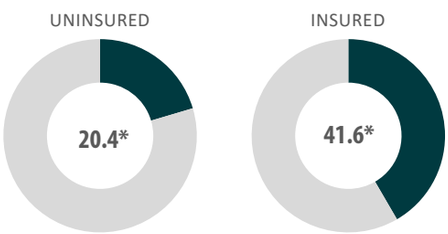


Flu Vaccination Rates by Race/Ethnicity



Flu Vaccination Rates by Insurance Status



Flu Vaccination Rates by Household Income

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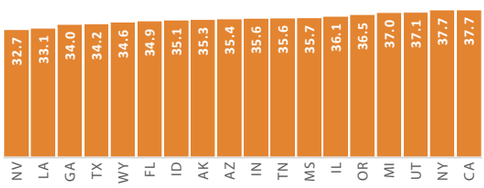
State vs. National Adult Flu Vaccination Rates

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



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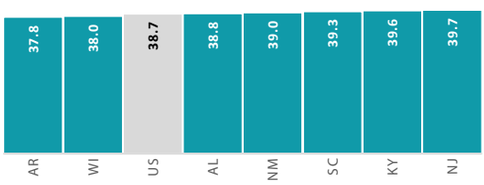

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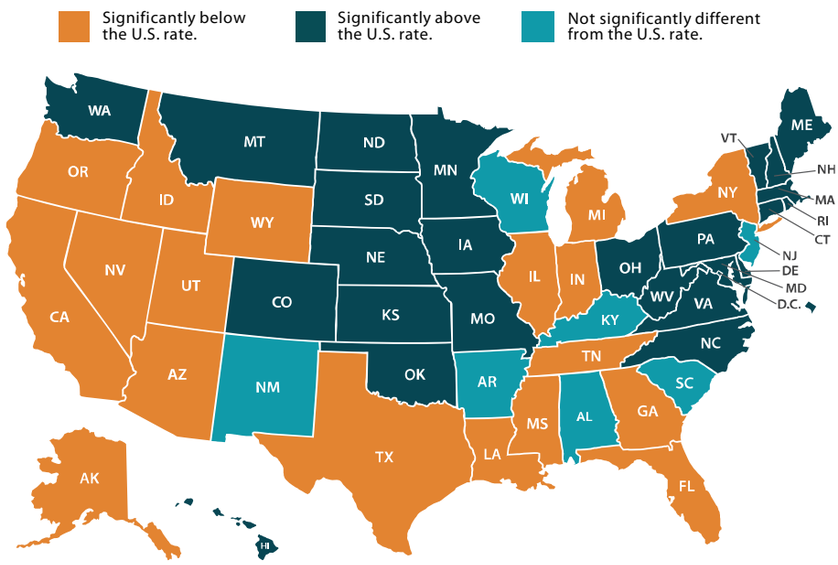

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SHADAC's analysis of 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) Data.

Hawaii

	Hawaii			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	40.3		1.6*	38.7	
Age					
18-39	32.0	-8.3*	3.5*	28.5	-10.2*
40-64	37.9	-2.4*	0.7	37.2	-1.5*
65+	57.0	16.7*	-2.4*	59.4	20.7*
Race/Ethnicity					
White	38.4	-1.9*	-3.4*	41.7	3.0*
Black/African American	46.3	6.0	13.5*	32.8	-5.9*
Hispanic	32.9	-7.4*	2.0	30.9	-7.7*
Asian/Pacific Islander	43.5	3.2*	2.1*	41.4	2.7*
American Indian/Alaska Native	31.7	-8.6	-2.2	33.9	-4.8*
Other/multiple	37.7	-2.6*	2.8*	34.9	-3.8*
Sex					
Male	37.0	-3.3*	1.7*	35.4	-3.3*
Female	43.4	3.1*	1.6*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	36.7	-3.6*	1.3*	35.4	-3.3*
1+ chronic conditions	51.8	11.5*	2.6*	49.1	10.5*
Health Insurance Coverage					
Uninsured	20.4	-19.9*	2.8	17.6	-21.1*
Insured	41.6	1.3*	0.0	41.6	2.9*
Access to Care					
No personal doctor	21.3	-19.0*	1.2	20.1	-18.6*
Has personal doctor	43.7	3.4*	-0.4	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	41.3		1.1*	40.2	
Less than high school	41.3	0.1	7.3*	34.0	-6.1*
High school graduate	36.7	-4.5*	1.2	35.6	-4.6*
Some college or associate's degree	39.6	-1.7*	0.8	38.8	-1.4*
Bachelor's degree or higher	46.5	6.9*	-1.4*	47.9	9.2*
Household Income					
Less than $25,000	37.3	-3.0*	2.6*	34.8	-3.9*
$25,000 to $49,999	38.5	-1.8	2.0	36.5	-2.2*
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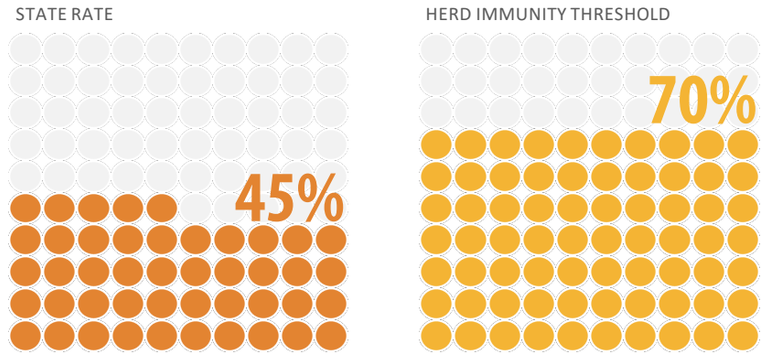

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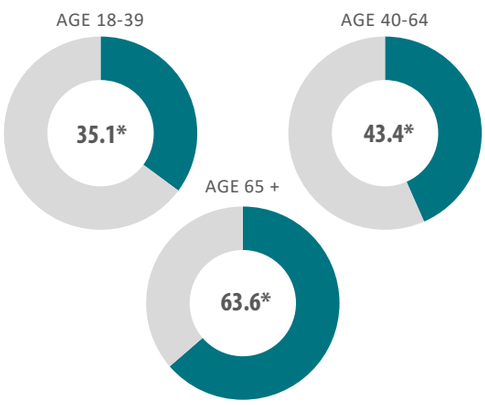

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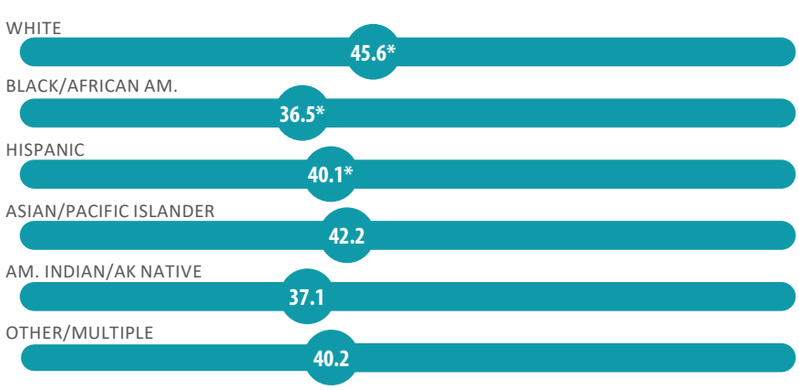

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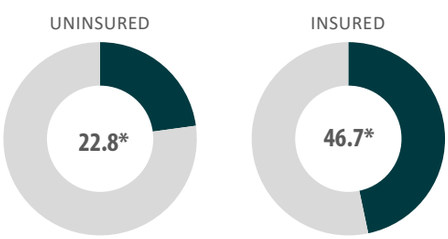

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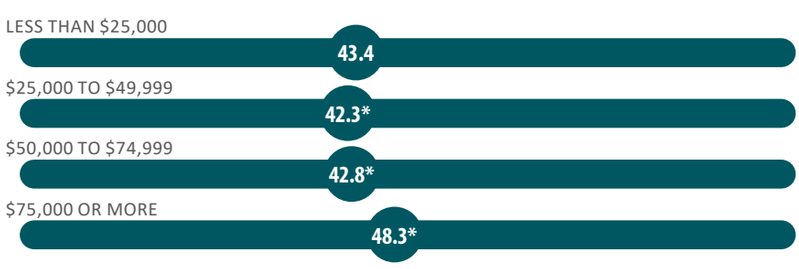

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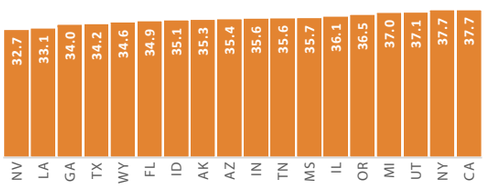

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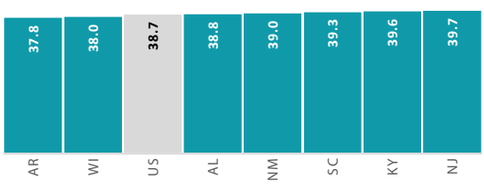

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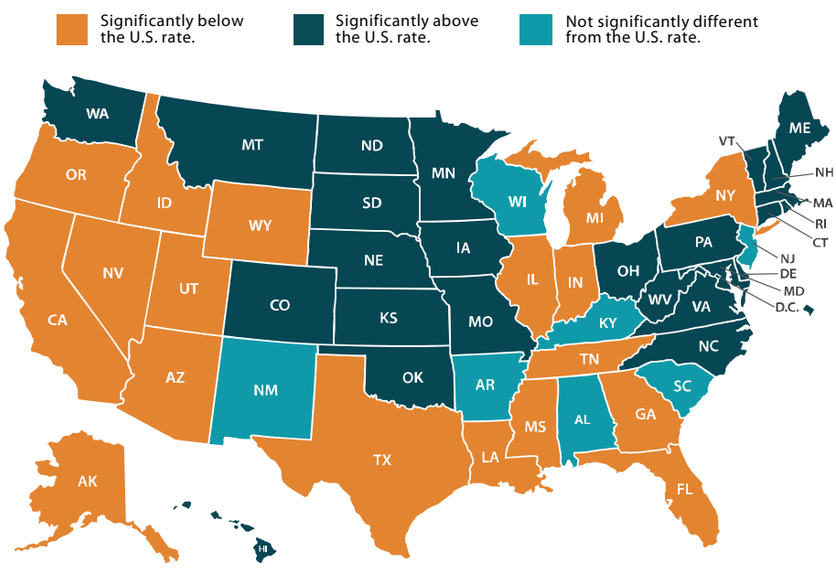

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Iowa

	Iowa			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	44.8		6.2*	38.7	
Age					
18-39	35.1	-9.7*	6.6*	28.5	-10.2*
40-64	43.4	-1.4*	6.2*	37.2	-1.5*
65+	63.6	18.8*	4.3*	59.4	20.7*
Race/Ethnicity					
White	45.6	0.8*	3.9*	41.7	3.0*
Black/African American	36.5	-8.4*	3.7	32.8	-5.9*
Hispanic	40.1	-4.7*	9.2*	30.9	-7.7*
Asian/Pacific Islander	42.2	-2.6	0.8	41.4	2.7*
American Indian/Alaska Native	37.1	-7.7	3.2	33.9	-4.8*
Other/multiple	40.2	-4.6	5.4	34.9	-3.8*
Sex					
Male	39.1	-5.8*	3.7*	35.4	-3.3*
Female	50.4	5.5*	8.5*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	41.7	-3.1*	6.3*	35.4	-3.3*
1+ chronic conditions	55.6	10.8*	6.5*	49.1	10.5*
Health Insurance Coverage					
Uninsured	22.8	-22.0*	5.3*	17.6	-21.1*
Insured	46.7	1.9*	5.1*	41.6	2.9*
Access to Care					
No personal doctor	22.3	-22.5*	2.2*	20.1	-18.6*
Has personal doctor	49.5	4.7*	5.4*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	46.7		6.6*	40.2	
Less than high school	40.2	-6.5*	6.2*	34.0	-6.1*
High school graduate	42.7	-4.0*	7.2*	35.6	-4.6*
Some college or associate's degree	45.0	-1.7*	6.2*	38.8	-1.4*
Bachelor's degree or higher	54.8	9.8*	6.9*	47.9	9.2*
Household Income					
Less than $25,000	43.4	-1.5	8.6*	34.8	-3.9*
$25,000 to $49,999	42.3	-2.5*	5.8*	36.5	-2.2*
$50,000 to $74,999	42.8	-2.0*	4.2*	38.6	-0.1
$75,000 or more	48.3	3.5*	5.5*	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.
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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.

Idaho

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.

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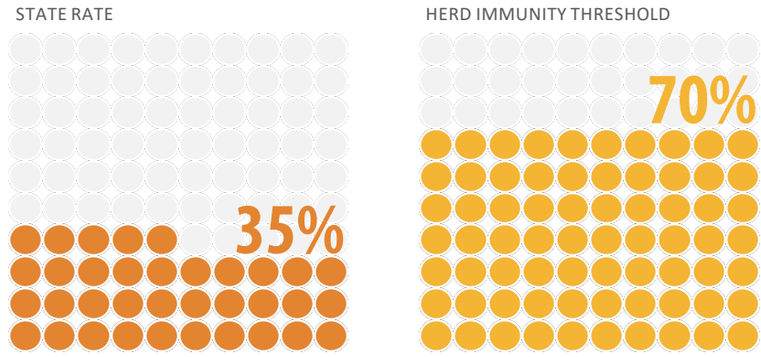
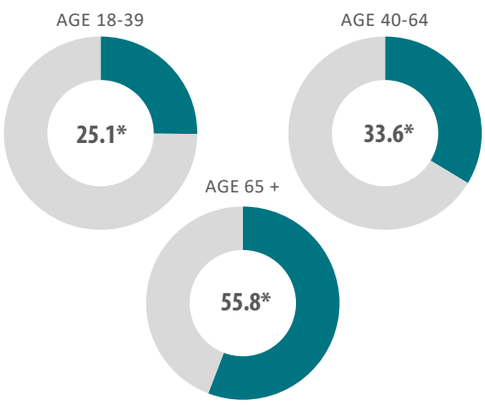
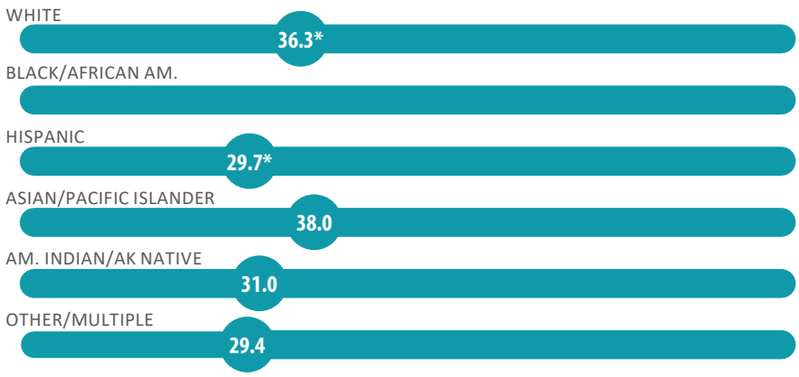
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold



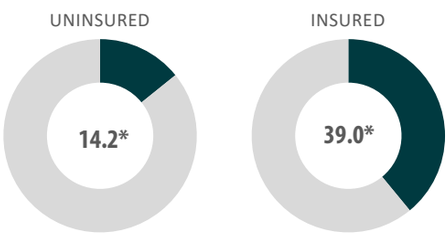
Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity



Flu Vaccination Rates by Insurance Status

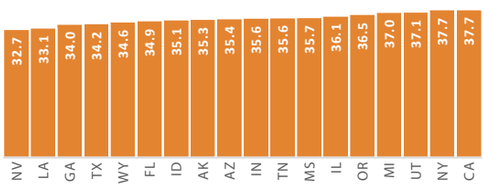


Flu Vaccination Rates by Household Income

* 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.



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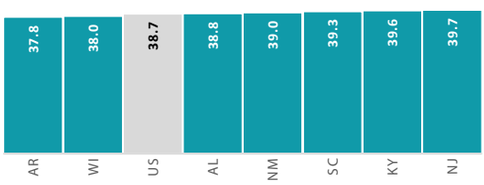

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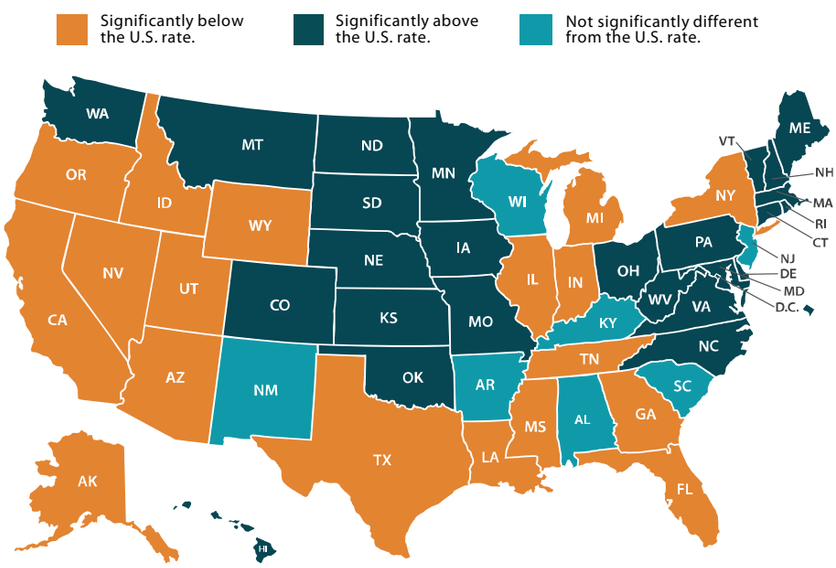

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Idaho	Idaho			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	35.1		-3.6*	38.7	
Age					
18-39	25.1	-10.0*	-3.4*	28.5	-10.2*
40-64	33.6	-1.5*	-3.5*	37.2	-1.5*
65+	55.8	20.7*	-3.6*	59.4	20.7*
Race/Ethnicity					
White	36.3	1.1*	-5.4*	41.7	3.0*
Black/African American	#N/A	#N/A	#N/A	32.8	-5.9*
Hispanic	29.7	-5.4*	-1.2	30.9	-7.7*
Asian/Pacific Islander	38.0	2.9	-3.4	41.4	2.7*
American Indian/Alaska Native	31.0	-4.2	-2.9	33.9	-4.8*
Other/multiple	29.4	-5.7	-5.5	34.9	-3.8*
Sex					
Male	31.8	-3.3*	-3.5*	35.4	-3.3*
Female	38.4	3.3*	-3.4*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	32.3	-2.8*	-3.1*	35.4	-3.3*
1+ chronic conditions	44.9	9.8*	-4.2*	49.1	10.5*
Health Insurance Coverage					
Uninsured	14.2	-20.9*	-3.4*	17.6	-21.1*
Insured	39.0	3.9*	-2.6*	41.6	2.9*
Access to Care					
No personal doctor	16.7	-18.4*	-3.4*	20.1	-18.6*
Has personal doctor	42.1	7.0*	-2.0*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	36.9		-3.3*	40.2	
Less than high school	30.2	-6.7*	-3.8	34.0	-6.1*
High school graduate	32.1	-4.8*	-3.5*	35.6	-4.6*
Some college or associate's degree	36.4	-0.5	-2.4*	38.8	-1.4*
Bachelor's degree or higher	44.8	8.4*	-3.1*	47.9	9.2*
Household Income					
Less than $25,000	30.1	-5.0*	-4.7*	34.8	-3.9*
$25,000 to $49,999	35.3	0.2	-1.2	36.5	-2.2*
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$75,000 or more	41.1	6.0*	-1.7	42.8	4.1*

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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.

Illinois

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.

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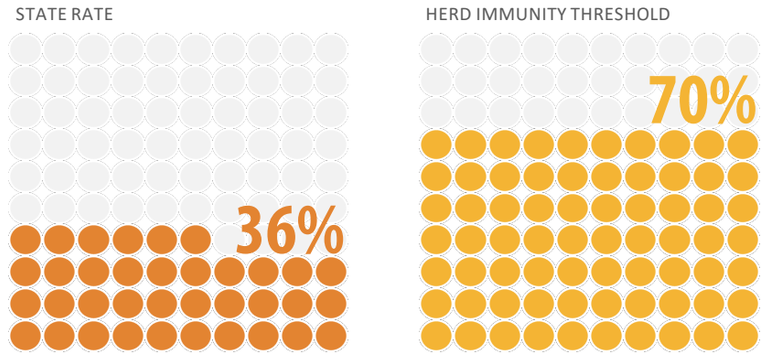
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold



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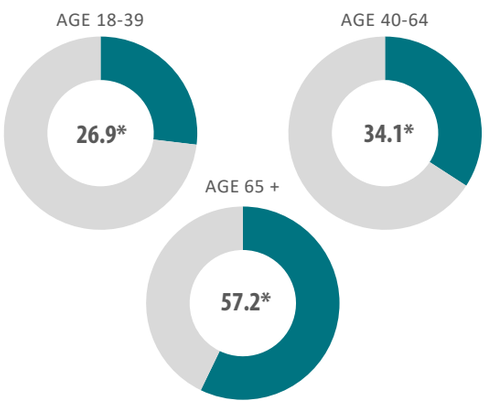
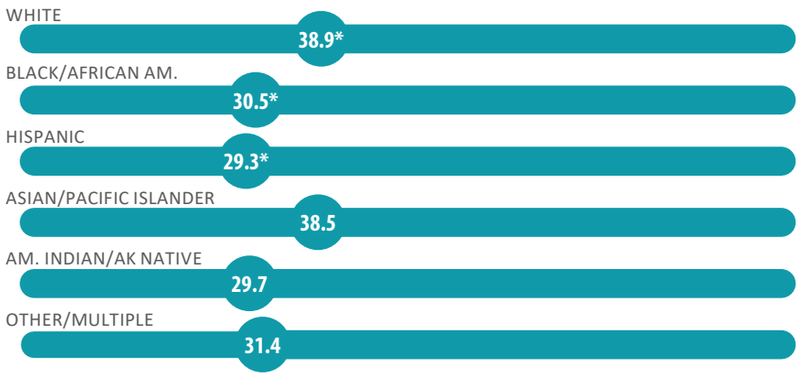
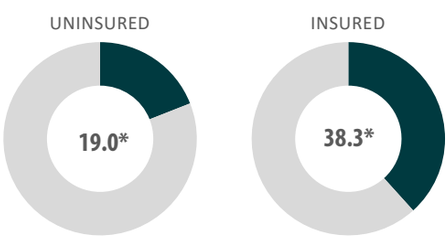


Flu Vaccination Rates by Race/Ethnicity



Flu Vaccination Rates by Insurance Status



Flu Vaccination Rates by Household Income

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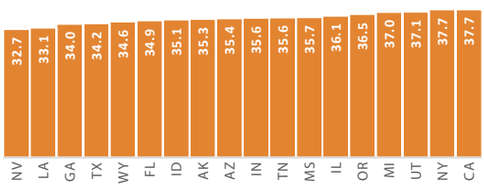
State vs. National Adult Flu Vaccination Rates

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



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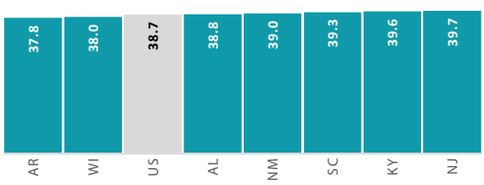

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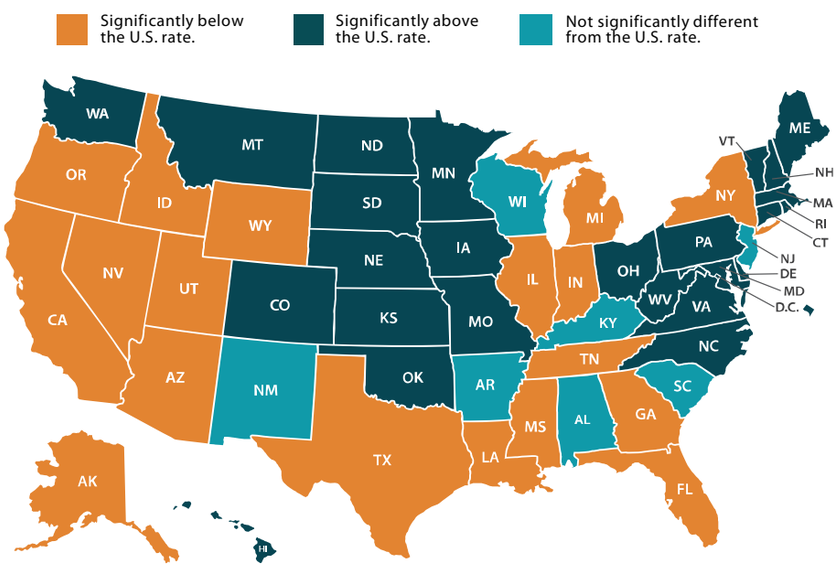

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SHADAC's analysis of 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) Data.

Illinois	Illinois			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	36.1		-2.6*	38.7	
Age					
18-39	26.9	-9.2*	-1.6*	28.5	-10.2*
40-64	34.1	-1.9*	-3.0*	37.2	-1.5*
65+	57.2	21.1*	-2.2*	59.4	20.7*
Race/Ethnicity					
White	38.9	2.8*	-2.8*	41.7	3.0*
Black/African American	30.5	-5.6*	-2.3	32.8	-5.9*
Hispanic	29.3	-6.8*	-1.7	30.9	-7.7*
Asian/Pacific Islander	38.5	2.4	-2.9	41.4	2.7*
American Indian/Alaska Native	29.7	-6.4	-4.2	33.9	-4.8*
Other/multiple	31.4	-4.7	-3.5	34.9	-3.8*
Sex					
Male	32.5	-3.5*	-2.8*	35.4	-3.3*
Female	39.5	3.4*	-2.3*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	33.0	-3.1*	-2.4*	35.4	-3.3*
1+ chronic conditions	46.6	10.6*	-2.5*	49.1	10.5*
Health Insurance Coverage					
Uninsured	19.0	-17.1*	1.5	17.6	-21.1*
Insured	38.3	2.2*	-3.3*	41.6	2.9*
Access to Care					
No personal doctor	18.3	-17.8*	-1.9*	20.1	-18.6*
Has personal doctor	40.2	4.1*	-3.9*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	37.3		-2.8*	40.2	
Less than high school	31.5	-5.8*	-2.5	34.0	-6.1*
High school graduate	31.9	-5.4*	-3.6*	35.6	-4.6*
Some college or associate's degree	35.2	-2.1*	-3.5*	38.8	-1.4*
Bachelor's degree or higher	45.2	10.0*	-2.7*	47.9	9.2*
Household Income					
Less than $25,000	31.9	-4.2*	-2.8*	34.8	-3.9*
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Indiana

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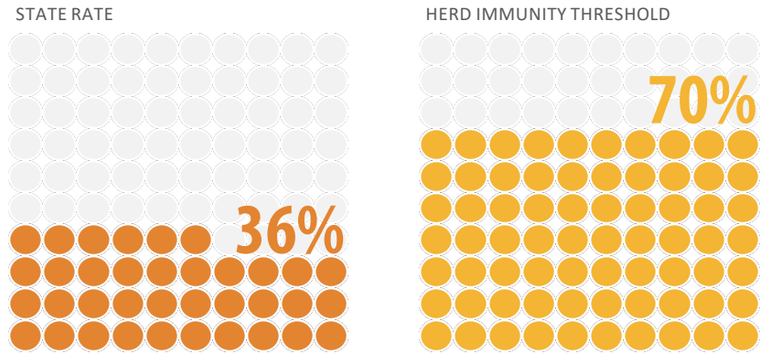

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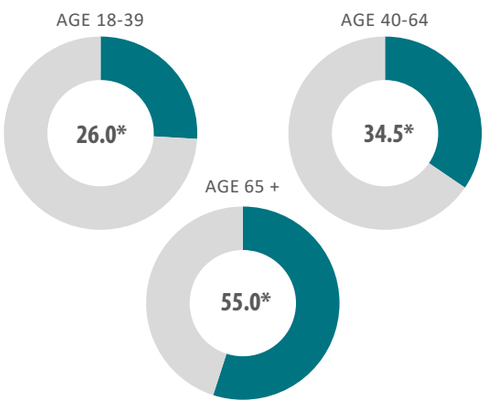

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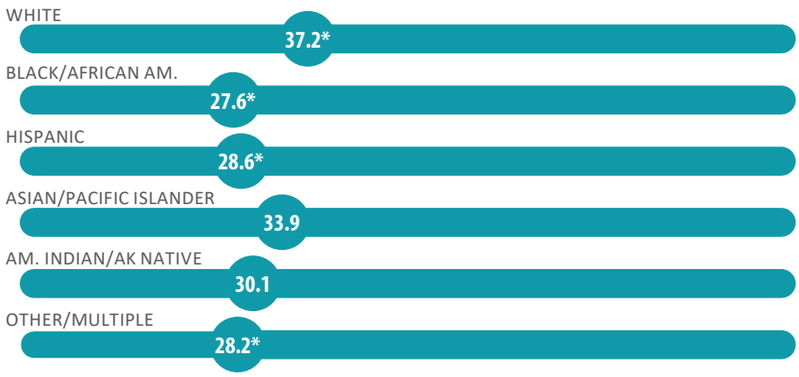

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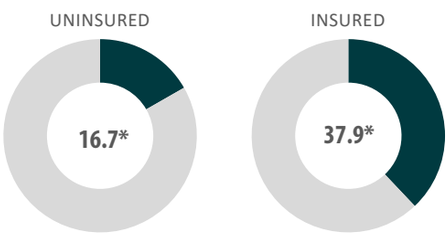

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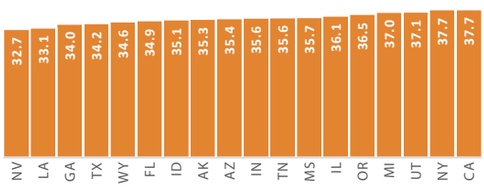

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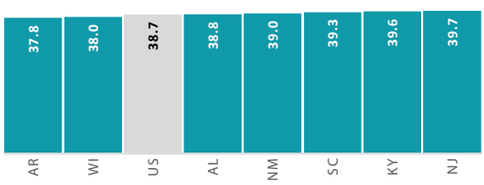

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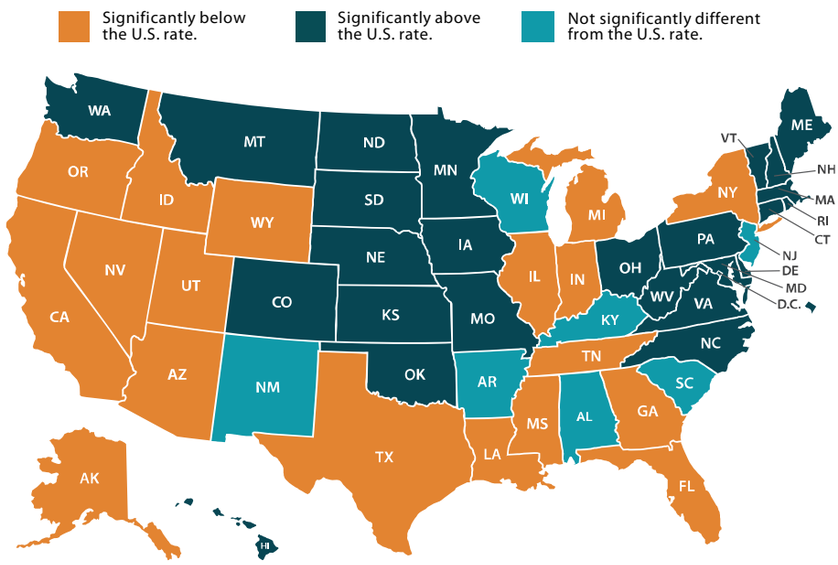

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Indiana

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65+	55.0	19.4*	-4.4*	59.4	20.7*
Race/Ethnicity					
White	37.2	1.6*	-4.5*	41.7	3.0*
Black/African American	27.6	-8.0*	-5.2*	32.8	-5.9*
Hispanic	28.6	-7.0*	-2.3	30.9	-7.7*
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Sex					
Male	31.8	-3.8*	-3.6*	35.4	-3.3*
Female	39.4	3.8*	-2.4*	41.8	3.1*
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All Adults Age 25+	37.2		-3.0*	40.2	
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Kansas

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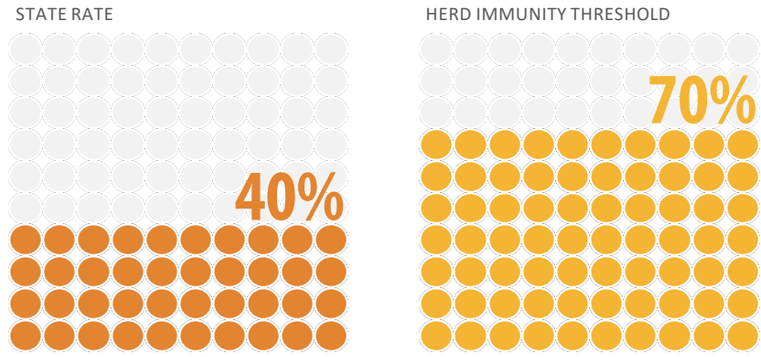

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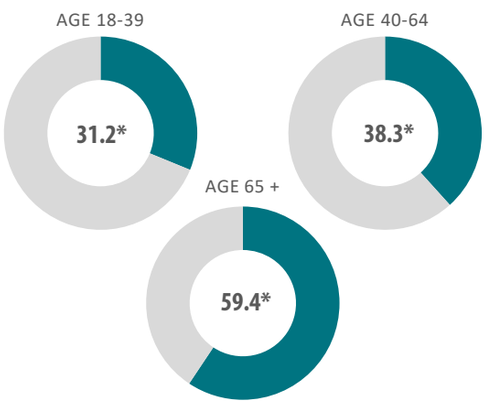
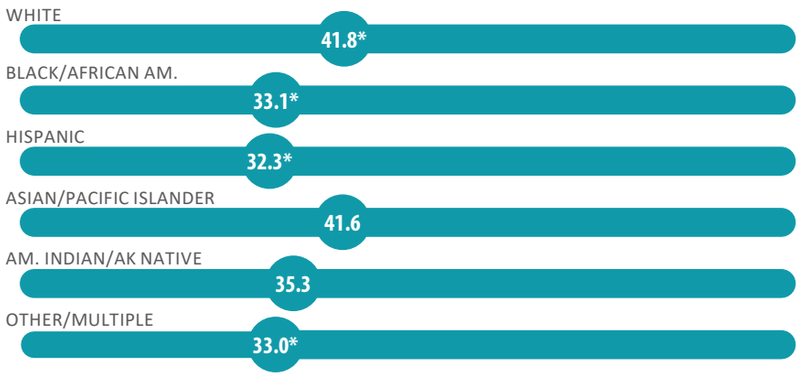
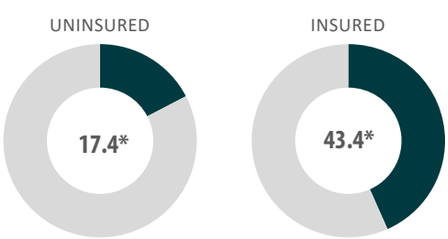


Flu Vaccination Rates by Race/Ethnicity



Flu Vaccination Rates by Insurance Status



Flu Vaccination Rates by Household Income

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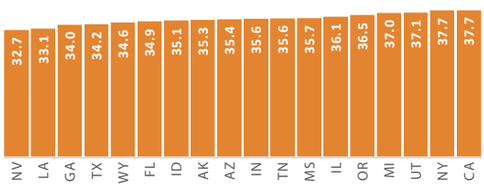
State vs. National Adult Flu Vaccination Rates

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



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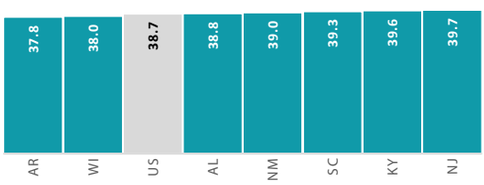

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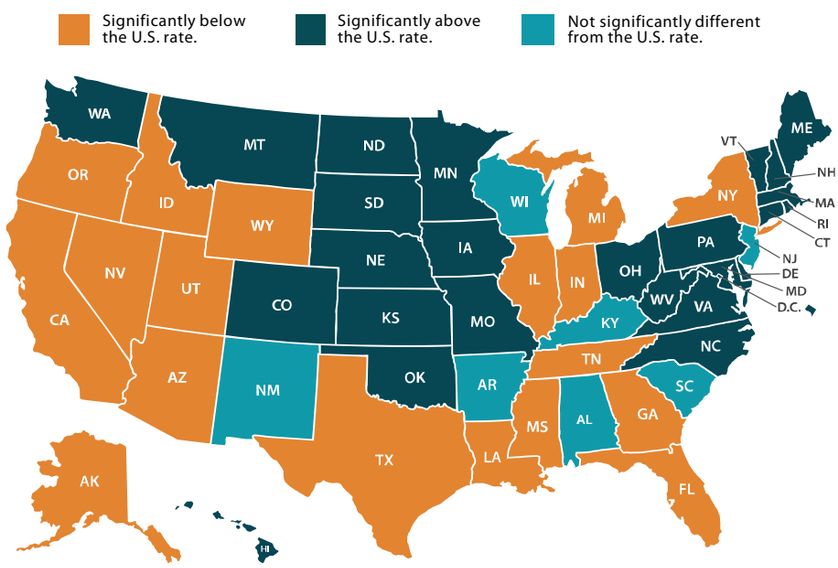

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Kansas

	Kansas			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	40.1		1.4*	38.7	
Age					
18-39	31.2	-8.9*	2.7*	28.5	-10.2*
40-64	38.3	-1.7*	1.1*	37.2	-1.5*
65+	59.4	19.3*	0.0	59.4	20.7*
Race/Ethnicity					
White	41.8	1.8*	0.1	41.7	3.0*
Black/African American	33.1	-7.0*	0.3	32.8	-5.9*
Hispanic	32.3	-7.8*	1.3	30.9	-7.7*
Asian/Pacific Islander	41.6	1.6	0.3	41.4	2.7*
American Indian/Alaska Native	35.3	-4.7	1.4	33.9	-4.8*
Other/multiple	33.0	-7.0*	-1.8	34.9	-3.8*
Sex					
Male	36.6	-3.5*	1.2*	35.4	-3.3*
Female	43.6	3.6*	1.8*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	37.4	-2.7*	2.0*	35.4	-3.3*
1+ chronic conditions	48.7	8.7*	-0.4	49.1	10.5*
Health Insurance Coverage					
Uninsured	17.4	-22.7*	-0.2	17.6	-21.1*
Insured	43.4	3.3*	1.7*	41.6	2.9*
Access to Care					
No personal doctor	20.9	-19.1*	0.8	20.1	-18.6*
Has personal doctor	45.5	5.4*	1.4*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	41.5		1.4*	40.2	
Less than high school	30.3	-11.2*	-3.7*	34.0	-6.1*
High school graduate	35.2	-6.3*	-0.3	35.6	-4.6*
Some college or associate's degree	39.7	-1.8*	0.9	38.8	-1.4*
Bachelor's degree or higher	51.5	11.8*	3.6*	47.9	9.2*
Household Income					
Less than $25,000	33.8	-6.2*	-0.9	34.8	-3.9*
$25,000 to $49,999	37.8	-2.3*	1.3	36.5	-2.2*
$50,000 to $74,999	39.7	-0.4	1.1	38.6	-0.1
$75,000 or more	46.2	6.1*	3.4*	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

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

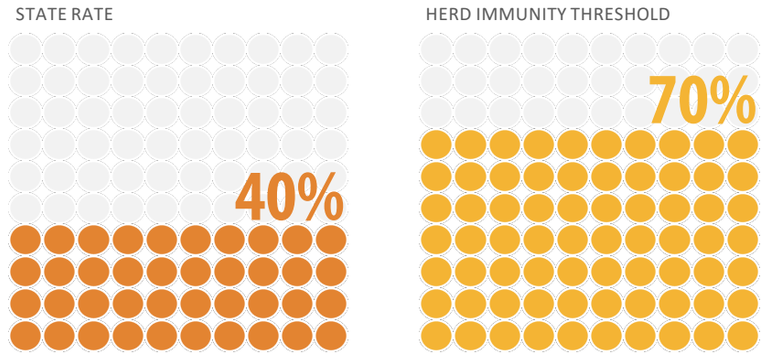
SHADAC's analysis of 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) Data.

Kentucky

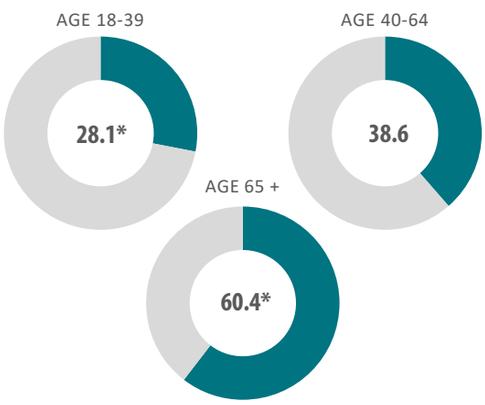
Though there is no consensus on one singular figure needed to achieve what is commonly known as "herd immunity" (i.e., sufficient levels of COVID vaccinations in order to achieve protective population immunity) scientists and researchers have generally agreed on a range of 70-90% of the population being 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

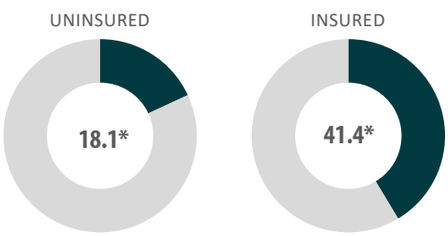


Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity

Flu Vaccination Rates by Insurance Status



Flu Vaccination Rates by Household Income

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State vs. National Adult Flu Vaccination Rates

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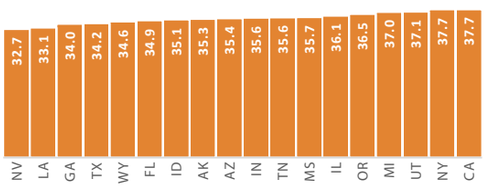

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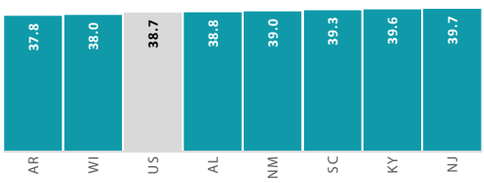

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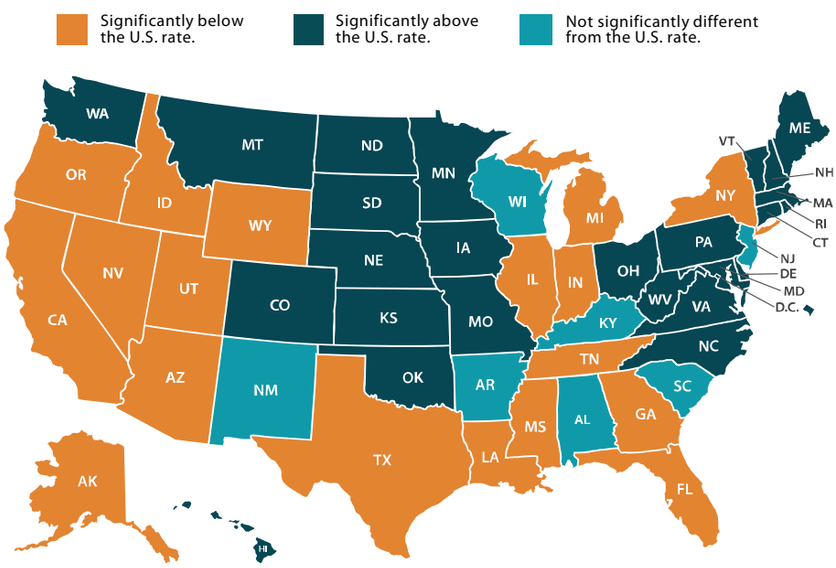

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SHADAC's analysis of 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) Data.

Kentucky

	Kentucky			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	39.6		0.9	38.7	
Age					
18-39	28.1	-11.5*	-0.5	28.5	-10.2*
40-64	38.6	-1.0	1.4	37.2	-1.5*
65+	60.4	20.9*	1.0	59.4	20.7*
Race/Ethnicity					
White	40.6	1.0*	-1.1*	41.7	3.0*
Black/African American	34.7	-4.8*	1.9	32.8	-5.9*
Hispanic	37.4	-2.2	6.4	30.9	-7.7*
Asian/Pacific Islander	32.8	-6.8	-8.6	41.4	2.7*
American Indian/Alaska Native	35.0	-4.6	1.1	33.9	-4.8*
Other/multiple	31.4	-8.2*	-3.5	34.9	-3.8*
Sex					
Male	36.0	-3.6*	0.6	35.4	-3.3*
Female	43.1	3.5*	1.3	41.8	3.1*
Chronic Condition Status					
No chronic conditions	35.2	-4.4*	-0.2	35.4	-3.3*
1+ chronic conditions	50.7	11.1*	1.6	49.1	10.5*
Health Insurance Coverage					
Uninsured	18.1	-21.5*	0.5	17.6	-21.1*
Insured	41.4	1.8*	-0.2	41.6	2.9*
Access to Care					
No personal doctor	22.9	-16.7*	2.8*	20.1	-18.6*
Has personal doctor	43.4	3.9*	-0.7	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	41.3		1.1*	40.2	
Less than high school	35.3	-5.9*	1.3	34.0	-6.1*
High school graduate	37.9	-3.4*	2.3*	35.6	-4.6*
Some college or associate's degree	39.8	-1.5	1.0	38.8	-1.4*
Bachelor's degree or higher	51.6	11.8*	3.7*	47.9	9.2*
Household Income					
Less than $25,000	38.0	-1.6	3.2*	34.8	-3.9*
$25,000 to $49,999	37.6	-2.0	1.1	36.5	-2.2*
$50,000 to $74,999	40.3	0.8	1.7	38.6	-0.1
$75,000 or more	42.1	2.5*	-0.8	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.
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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.

Louisiana

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.

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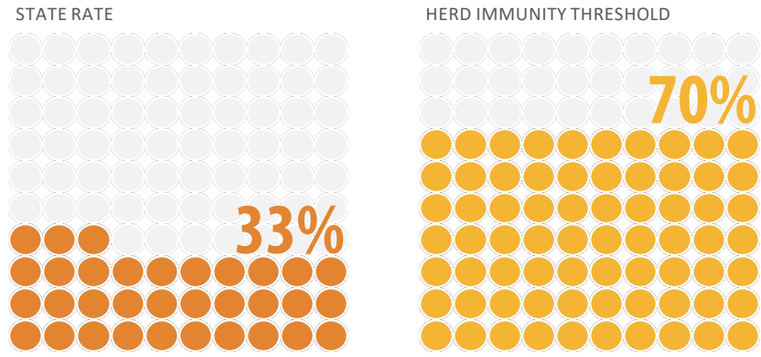
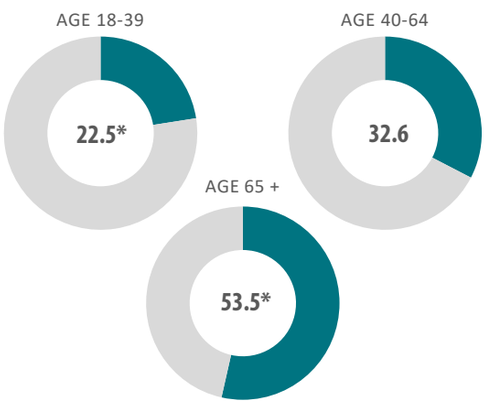
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold

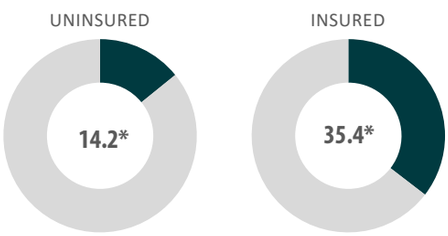


Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity

Flu Vaccination Rates by Insurance Status



Flu Vaccination Rates by Household Income

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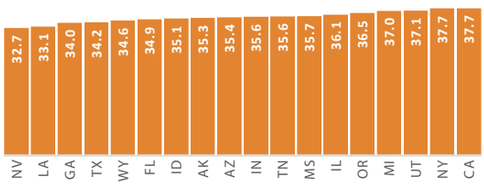
State vs. National Adult Flu Vaccination Rates

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



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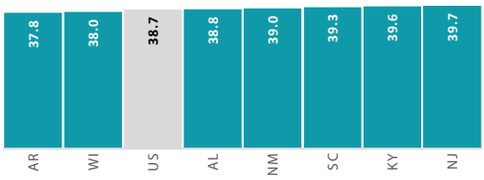

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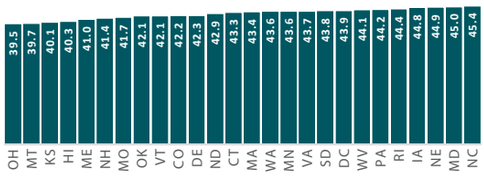

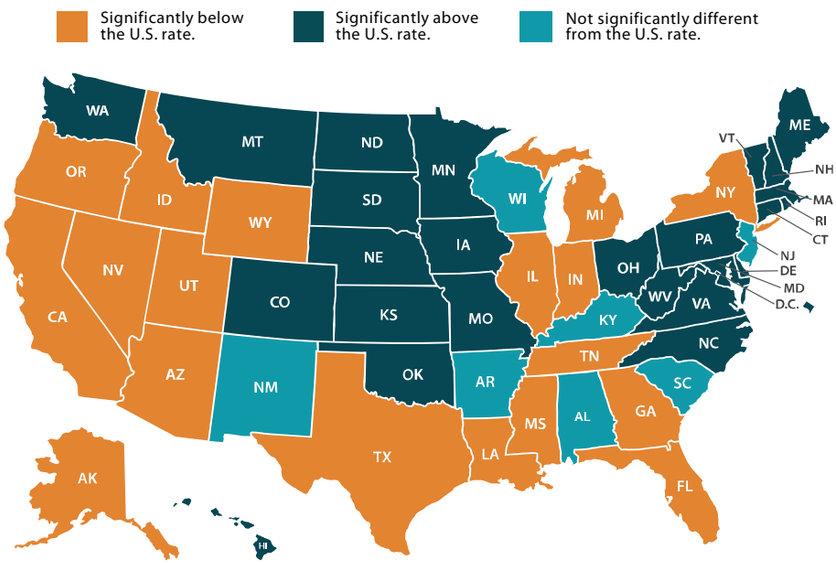

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SHADAC's analysis of 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) Data.

Louisiana

	Louisiana			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	33.1		-5.6*	38.7	
Age					
18-39	22.5	-10.5*	-6.0*	28.5	-10.2*
40-64	32.6	-0.4	-4.6*	37.2	-1.5*
65+	53.5	20.5*	-5.8*	59.4	20.7*
Race/Ethnicity					
White	35.7	2.6*	-6.0*	41.7	3.0*
Black/African American	30.0	-3.1*	-2.8*	32.8	-5.9*
Hispanic	25.5	-7.6*	-5.5*	30.9	-7.7*
Asian/Pacific Islander	34.7	1.6	-6.7	41.4	2.7*
American Indian/Alaska Native	26.2	-6.8	-7.7	33.9	-4.8*
Other/multiple	26.4	-6.7*	-8.5*	34.9	-3.8*
Sex					
Male	29.9	-3.1*	-5.5*	35.4	-3.3*
Female	36.1	3.0*	-5.7*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	29.2	-3.9*	-6.2*	35.4	-3.3*
1+ chronic conditions	43.8	10.8*	-5.3*	49.1	10.5*
Health Insurance Coverage					
Uninsured	14.2	-18.9*	-3.4*	17.6	-21.1*
Insured	35.4	2.4*	-6.2*	41.6	2.9*
Access to Care					
No personal doctor	16.1	-17.0*	-4.0*	20.1	-18.6*
Has personal doctor	38.0	5.0*	-6.1*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	34.7		-5.4*	40.2	
Less than high school	31.3	-3.4*	-2.8	34.0	-6.1*
High school graduate	30.2	-4.5*	-5.4*	35.6	-4.6*
Some college or associate's degree	35.6	0.9	-3.2*	38.8	-1.4*
Bachelor's degree or higher	42.3	6.7*	-5.6*	47.9	9.2*
Household Income					
Less than $25,000	30.7	-2.4*	-4.1*	34.8	-3.9*
$25,000 to $49,999	32.4	-0.6	-4.1*	36.5	-2.2*
$50,000 to $74,999	36.1	3.0*	-2.5	38.6	-0.1
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Massachusetts

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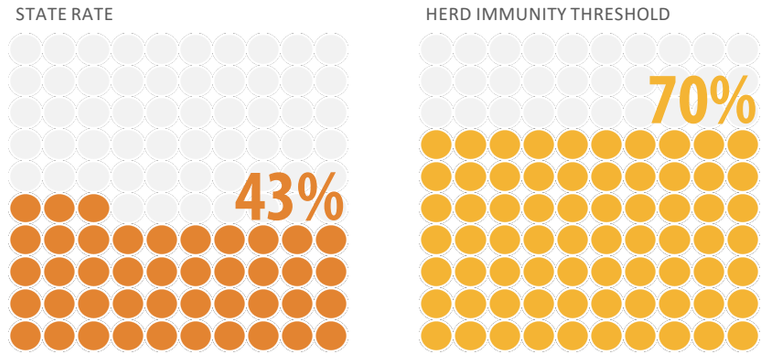
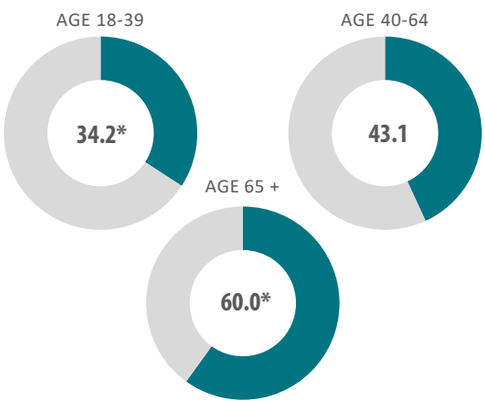


Flu Vaccination Rates by Age



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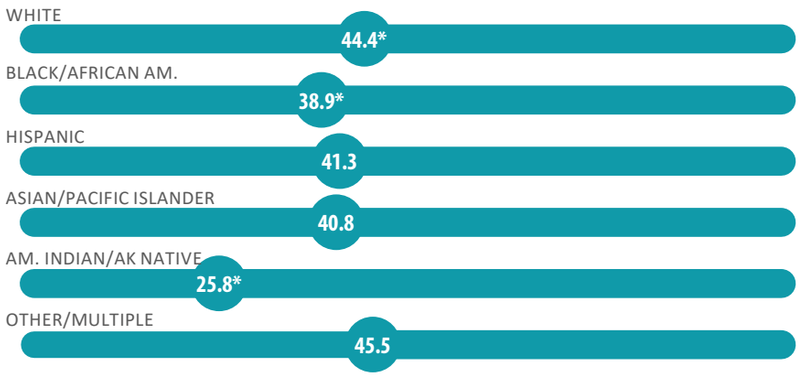
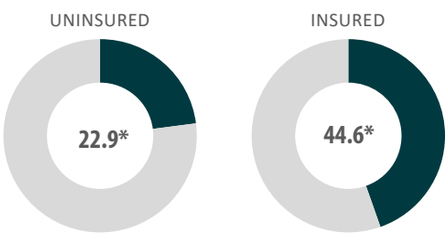
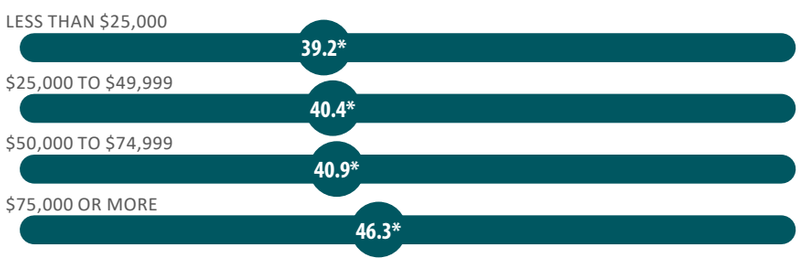


Flu Vaccination Rates by Insurance Status



Flu Vaccination Rates by Household Income



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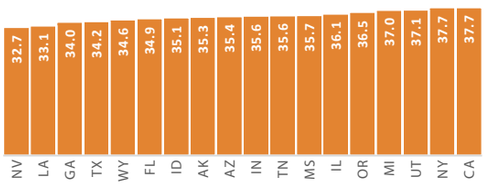

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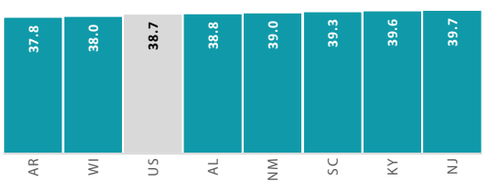

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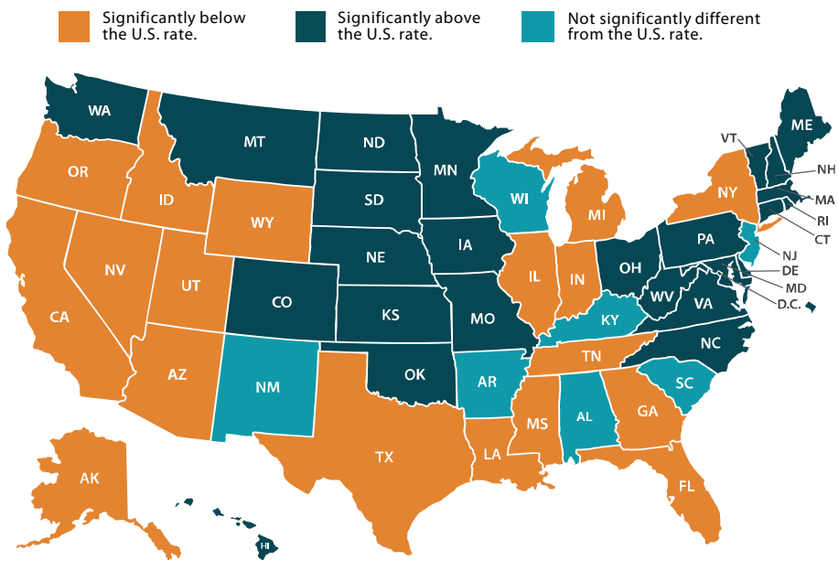

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Massachusetts

	Massachusetts			United States	
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Age					
18-39	34.2	-9.3*	5.7*	28.5	-10.2*
40-64	43.1	-0.3	5.9*	37.2	-1.5*
65+	60.0	16.5*	0.6	59.4	20.7*
Race/Ethnicity					
White	44.4	1.0*	2.7*	41.7	3.0*
Black/African American	38.9	-4.5*	6.1*	32.8	-5.9*
Hispanic	41.3	-2.2	10.3*	30.9	-7.7*
Asian/Pacific Islander	40.8	-2.6	-0.6	41.4	2.7*
American Indian/Alaska Native	25.8	-17.7*	-8.1	33.9	-4.8*
Other/multiple	45.5	2.1	10.7*	34.9	-3.8*
Sex					
Male	39.6	-3.9*	4.2*	35.4	-3.3*
Female	46.7	3.3*	4.9*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	41.0	-2.5*	5.6*	35.4	-3.3*
1+ chronic conditions	51.3	7.9*	2.2*	49.1	10.5*
Health Insurance Coverage					
Uninsured	22.9	-20.5*	5.4*	17.6	-21.1*
Insured	44.6	1.2*	3.0*	41.6	2.9*
Access to Care					
No personal doctor	25.4	-18.0*	5.3*	20.1	-18.6*
Has personal doctor	46.1	2.6*	2.0*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	44.4		4.3*	40.2	
Less than high school	42.7	-1.8	8.6*	34.0	-6.1*
High school graduate	36.6	-7.8*	1.1	35.6	-4.6*
Some college or associate's degree	41.2	-3.2*	2.4*	38.8	-1.4*
Bachelor's degree or higher	51.2	10.0*	3.3*	47.9	9.2*
Household Income					
Less than $25,000	39.2	-4.2*	4.5*	34.8	-3.9*
$25,000 to $49,999	40.4	-3.0*	3.9*	36.5	-2.2*
$50,000 to $74,999	40.9	-2.5*	2.3	38.6	-0.1
$75,000 or more	46.3	2.8*	3.5*	42.8	4.1*

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

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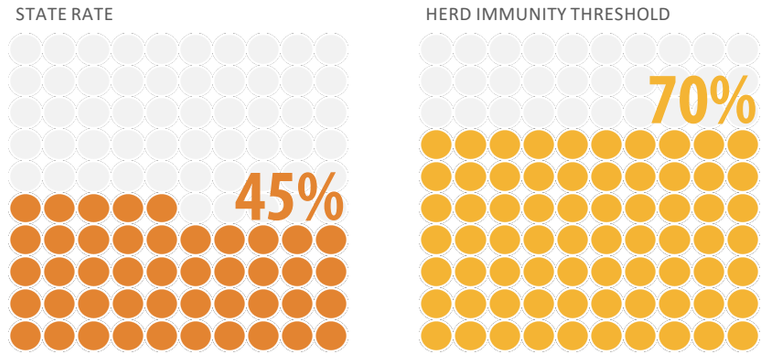
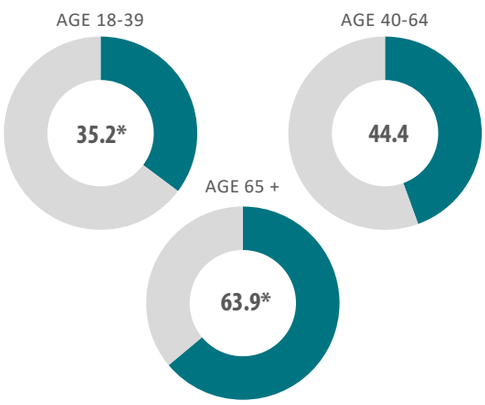
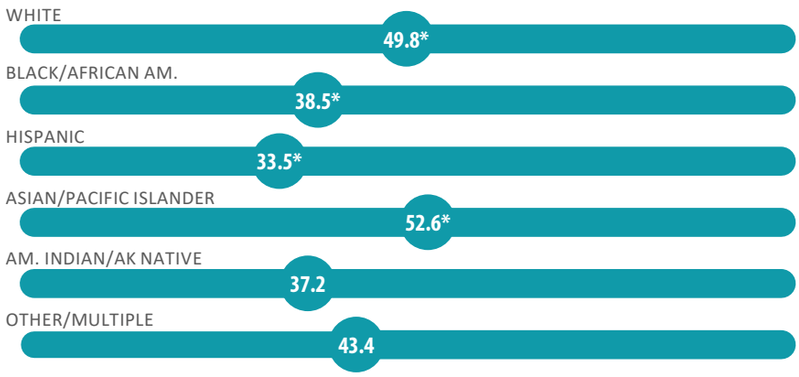


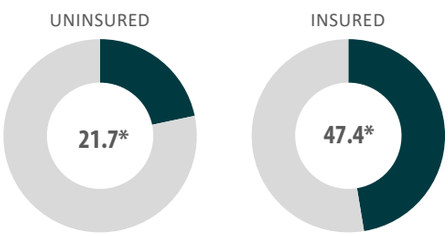
Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity



Flu Vaccination Rates by Insurance Status



Flu Vaccination Rates by Household Income

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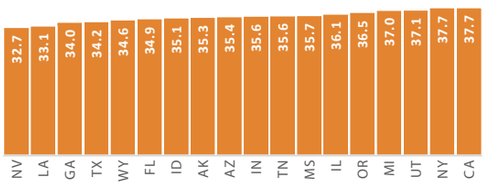
State vs. National Adult Flu Vaccination Rates

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



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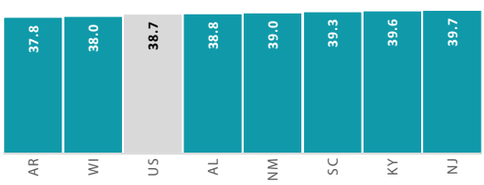

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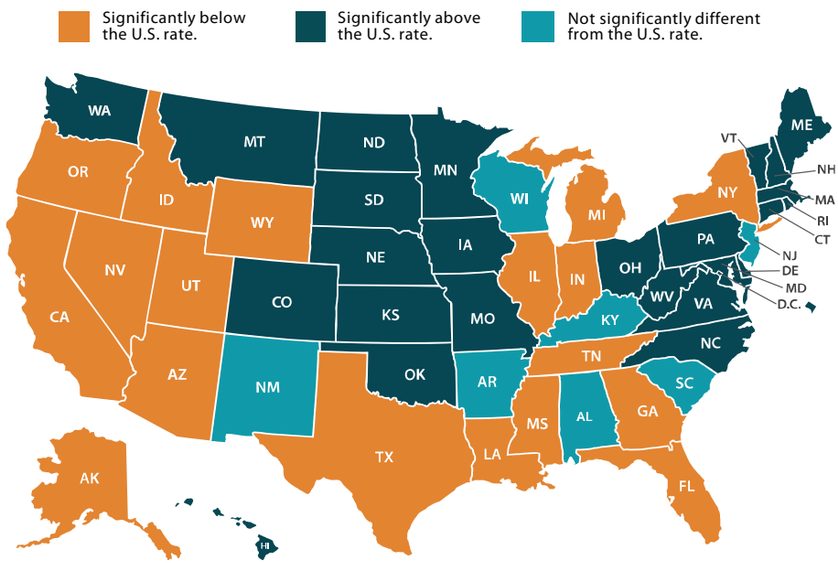

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Maryland

	Maryland			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	45.0		6.4*	38.7	
Age					
18-39	35.2	-9.8*	6.7*	28.5	-10.2*
40-64	44.4	-0.6	7.3*	37.2	-1.5*
65+	63.9	18.9*	4.5*	59.4	20.7*
Race/Ethnicity					
White	49.8	4.8*	8.1*	41.7	3.0*
Black/African American	38.5	-6.6*	5.7*	32.8	-5.9*
Hispanic	33.5	-11.5*	2.6	30.9	-7.7*
Asian/Pacific Islander	52.6	7.6*	11.2*	41.4	2.7*
American Indian/Alaska Native	37.2	-7.9	3.3	33.9	-4.8*
Other/multiple	43.4	-1.6	8.6*	34.9	-3.8*
Sex					
Male	41.9	-3.2*	6.5*	35.4	-3.3*
Female	48.1	3.0*	6.3*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	42.4	-2.7*	7.0*	35.4	-3.3*
1+ chronic conditions	54.0	8.9*	4.8*	49.1	10.5*
Health Insurance Coverage					
Uninsured	21.7	-23.4*	4.1*	17.6	-21.1*
Insured	47.4	2.4*	5.8*	41.6	2.9*
Access to Care					
No personal doctor	24.0	-21.0*	3.9*	20.1	-18.6*
Has personal doctor	49.1	4.0*	5.0*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	46.3		6.2*	40.2	
Less than high school	34.6	-11.7*	0.6	34.0	-6.1*
High school graduate	40.3	-6.1*	4.7*	35.6	-4.6*
Some college or associate's degree	43.8	-2.6*	5.0*	38.8	-1.4*
Bachelor's degree or higher	54.8	11.1*	6.9*	47.9	9.2*
Household Income					
Less than $25,000	37.0	-8.0*	2.3*	34.8	-3.9*
$25,000 to $49,999	42.1	-2.9*	5.6*	36.5	-2.2*
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$75,000 or more	49.1	4.0*	6.3*	42.8	4.1*

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

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Maine

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.

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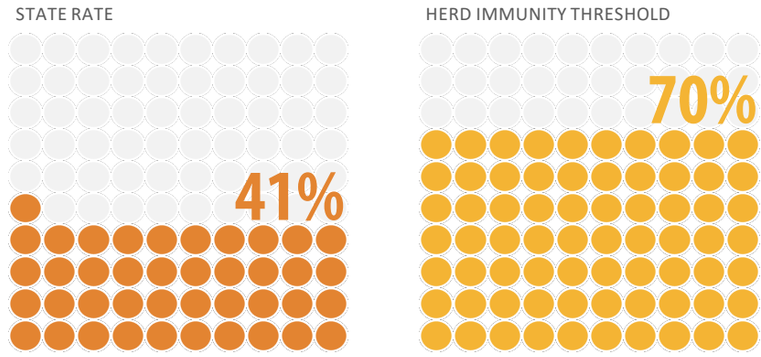
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold



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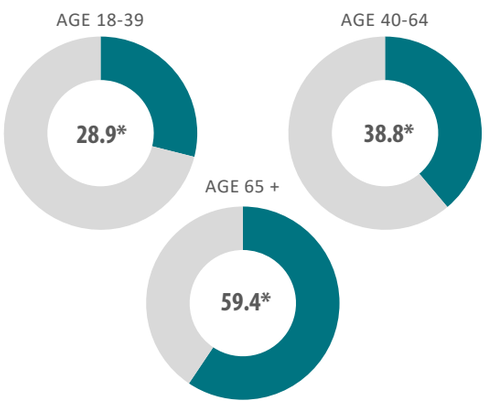
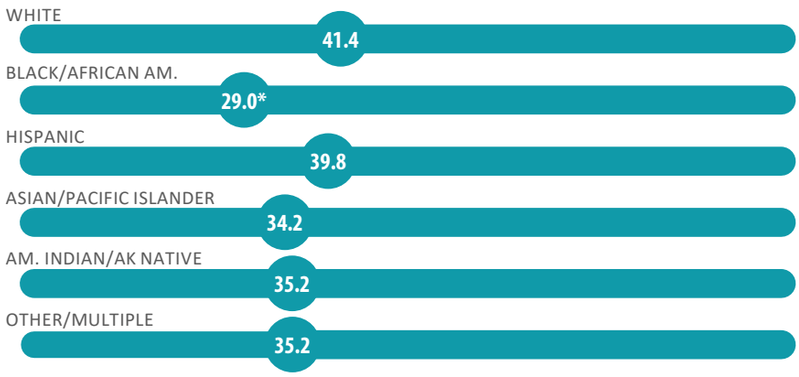


Flu Vaccination Rates by Race/Ethnicity



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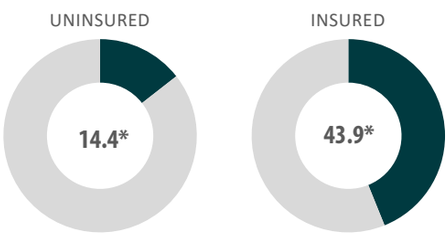

Flu Vaccination Rates by Household Income

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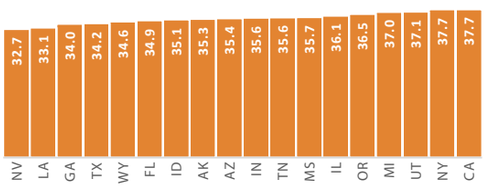

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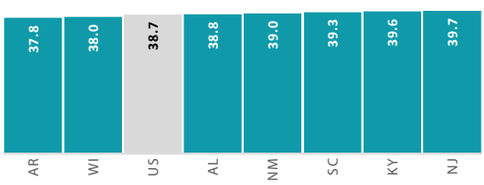

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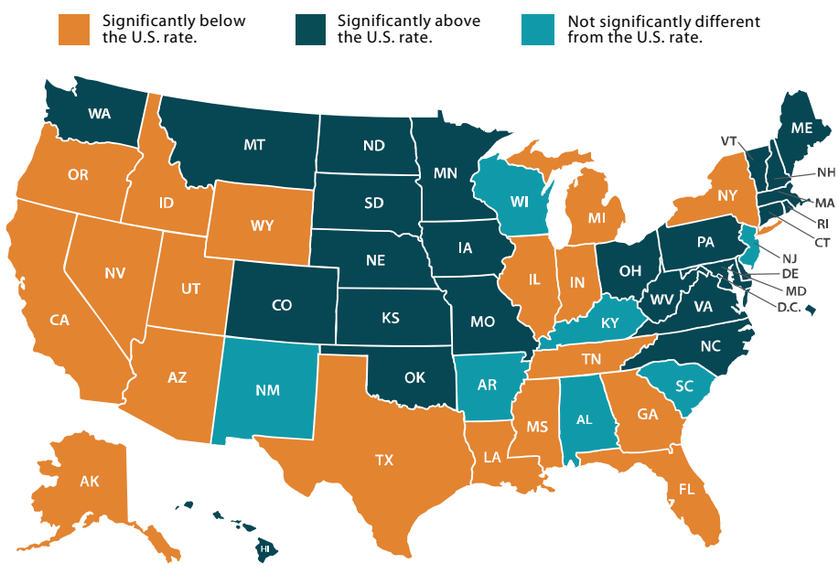

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SHADAC's analysis of 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) Data.

Maine

	Maine			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	41.0		2.3*	38.7	
Age					
18-39	28.9	-12.0*	0.4	28.5	-10.2*
40-64	38.8	-2.1*	1.7*	37.2	-1.5*
65+	59.4	18.4*	0.0	59.4	20.7*
Race/Ethnicity					
White	41.4	0.4	-0.3	41.7	3.0*
Black/African American	29.0	-12.0*	-3.8	32.8	-5.9*
Hispanic	39.8	-1.2	8.9	30.9	-7.7*
Asian/Pacific Islander	34.2	-6.7	-7.1	41.4	2.7*
American Indian/Alaska Native	35.2	-5.8	1.3	33.9	-4.8*
Other/multiple	35.2	-5.8	0.3	34.9	-3.8*
Sex					
Male	37.0	-3.9*	1.7*	35.4	-3.3*
Female	44.7	3.7*	2.9*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	37.9	-3.0*	2.5*	35.4	-3.3*
1+ chronic conditions	49.3	8.3*	0.1	49.1	10.5*
Health Insurance Coverage					
Uninsured	14.4	-26.5*	-3.1*	17.6	-21.1*
Insured	43.9	2.9*	2.3*	41.6	2.9*
Access to Care					
No personal doctor	15.9	-25.1*	-4.2*	20.1	-18.6*
Has personal doctor	45.1	4.1*	1.0	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	42.2		2.0*	40.2	
Less than high school	35.7	-6.5*	1.6	34.0	-6.1*
High school graduate	35.9	-6.3*	0.4	35.6	-4.6*
Some college or associate's degree	41.3	-0.9	2.5*	38.8	-1.4*
Bachelor's degree or higher	50.9	9.6*	3.0*	47.9	9.2*
Household Income					
Less than $25,000	36.0	-5.0*	1.2	34.8	-3.9*
$25,000 to $49,999	39.7	-1.3	3.2*	36.5	-2.2*
$50,000 to $74,999	39.4	-1.5	0.8	38.6	-0.1
$75,000 or more	47.0	6.0*	4.2*	42.8	4.1*

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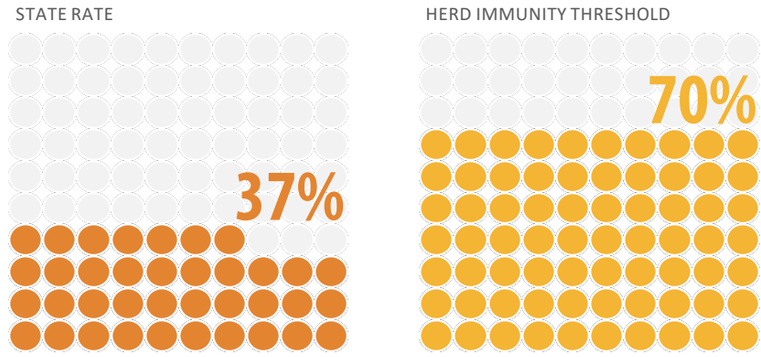

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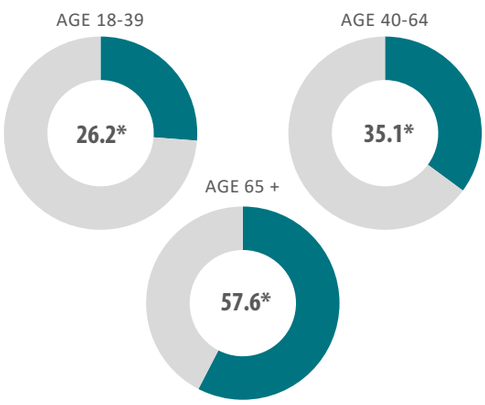

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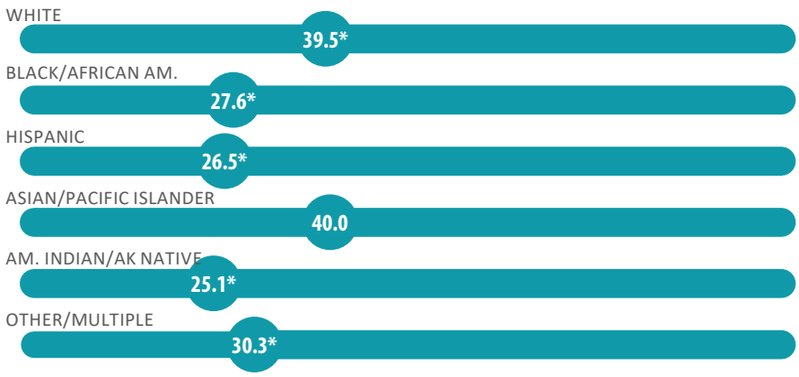

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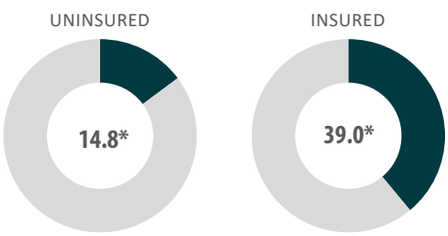

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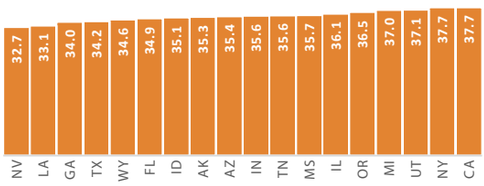

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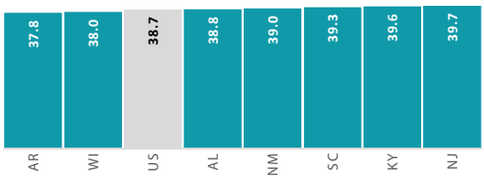

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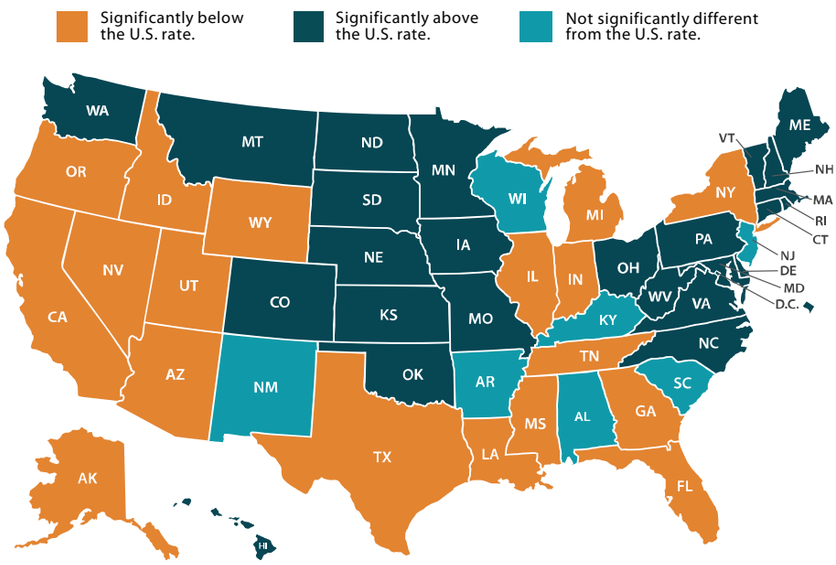

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65+	57.6	20.6*	-1.8*	59.4	20.7*
Race/Ethnicity					
White	39.5	2.4*	-2.2*	41.7	3.0*
Black/African American	27.6	-9.4*	-5.2*	32.8	-5.9*
Hispanic	26.5	-10.5*	-4.5*	30.9	-7.7*
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Sex					
Male	34.1	-2.9*	-1.3*	35.4	-3.3*
Female	39.7	2.7*	-2.1*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	33.7	-3.3*	-1.7*	35.4	-3.3*
1+ chronic conditions	46.0	9.0*	-3.2*	49.1	10.5*
Health Insurance Coverage					
Uninsured	14.8	-22.2*	-2.8*	17.6	-21.1*
Insured	39.0	2.0*	-2.6*	41.6	2.9*
Access to Care					
No personal doctor	16.0	-21.0*	-4.1*	20.1	-18.6*
Has personal doctor	40.7	3.7*	-3.4*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	38.6		-1.6*	40.2	
Less than high school	27.7	-10.8*	-6.3*	34.0	-6.1*
High school graduate	34.8	-3.7*	-0.7	35.6	-4.6*
Some college or associate's degree	37.8	-0.8	-1.0	38.8	-1.4*
Bachelor's degree or higher	46.9	9.1*	-1.1	47.9	9.2*
Household Income					
Less than $25,000	32.4	-4.6*	-2.3*	34.8	-3.9*
$25,000 to $49,999	36.6	-0.4	0.1	36.5	-2.2*
$50,000 to $74,999	38.1	1.1	-0.5	38.6	-0.1
$75,000 or more	40.4	3.4*	-2.4*	42.8	4.1*

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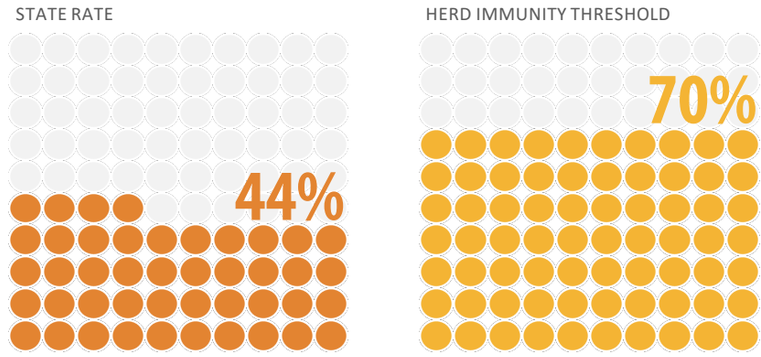

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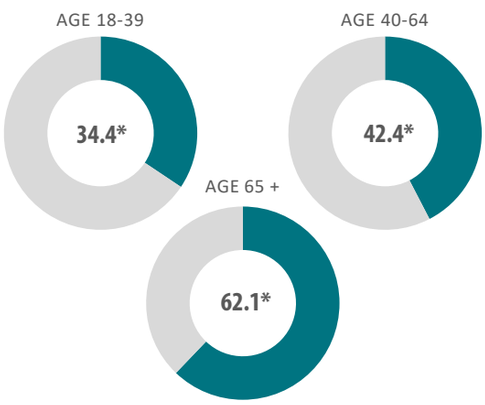
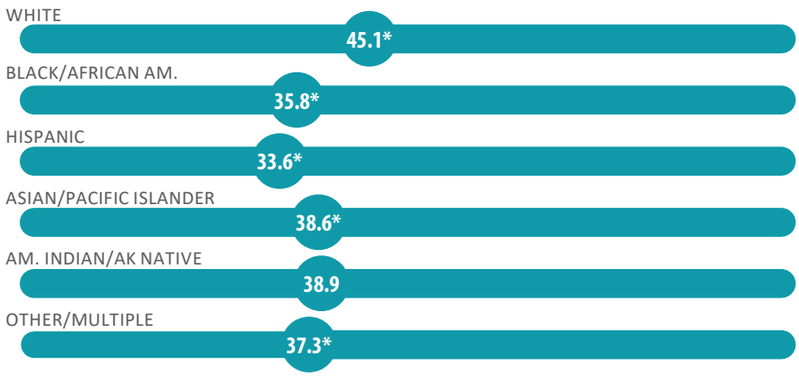
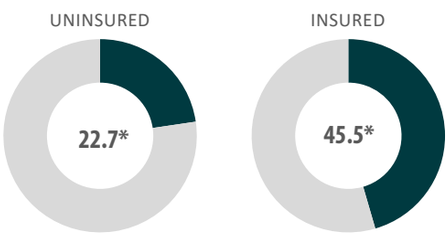


Flu Vaccination Rates by Race/Ethnicity



Flu Vaccination Rates by Insurance Status



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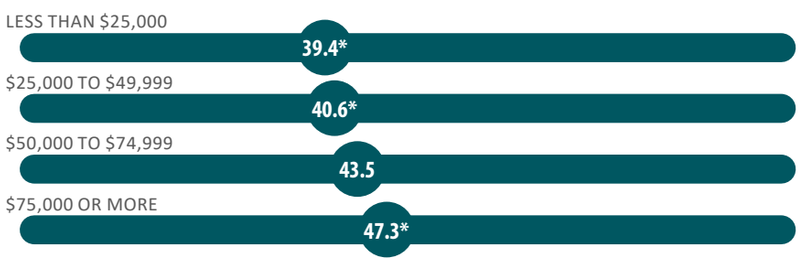

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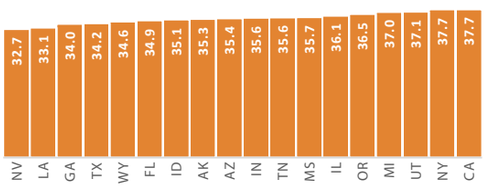

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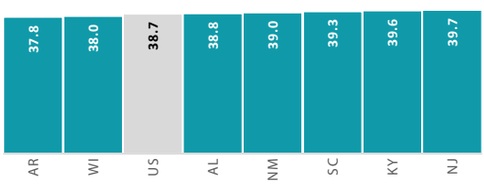

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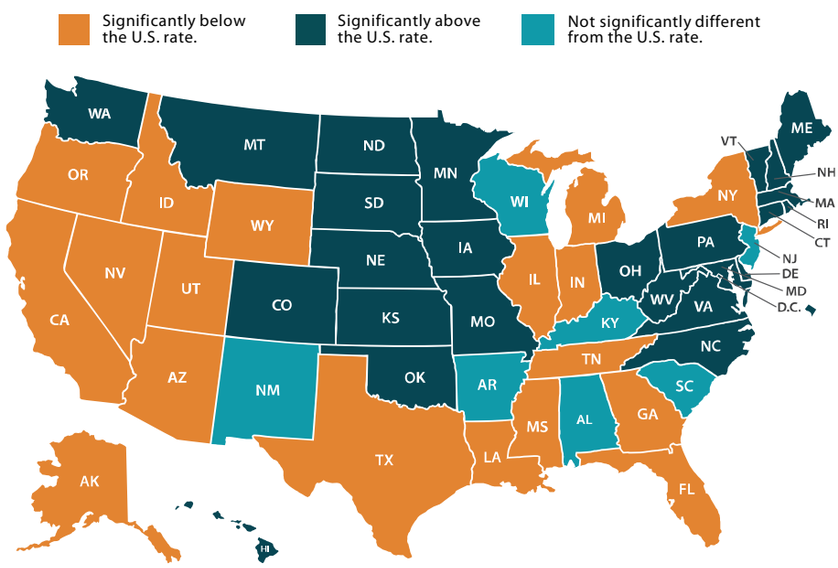

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Minnesota

	Minnesota			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	43.6		4.9*	38.7	
Age					
18-39	34.4	-9.2*	5.9*	28.5	-10.2*
40-64	42.4	-1.2*	5.2*	37.2	-1.5*
65+	62.1	18.5*	2.8*	59.4	20.7*
Race/Ethnicity					
White	45.1	1.5*	3.4*	41.7	3.0*
Black/African American	35.8	-7.9*	3.0	32.8	-5.9*
Hispanic	33.6	-10.1*	2.6	30.9	-7.7*
Asian/Pacific Islander	38.6	-5.1*	-2.8	41.4	2.7*
American Indian/Alaska Native	38.9	-4.7	5.1	33.9	-4.8*
Other/multiple	37.3	-6.3*	2.5	34.9	-3.8*
Sex					
Male	38.7	-4.9*	3.3*	35.4	-3.3*
Female	48.4	4.8*	6.6*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	40.9	-2.7*	5.5*	35.4	-3.3*
1+ chronic conditions	54.5	10.9*	5.4*	49.1	10.5*
Health Insurance Coverage					
Uninsured	22.7	-20.9*	5.1*	17.6	-21.1*
Insured	45.5	1.9*	3.9*	41.6	2.9*
Access to Care					
No personal doctor	25.4	-18.2*	5.3*	20.1	-18.6*
Has personal doctor	49.6	6.0*	5.5*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	45.1		5.0*	40.2	
Less than high school	37.2	-7.9*	3.2*	34.0	-6.1*
High school graduate	38.3	-6.9*	2.7*	35.6	-4.6*
Some college or associate's degree	43.4	-1.8*	4.6*	38.8	-1.4*
Bachelor's degree or higher	53.2	9.8*	5.3*	47.9	9.2*
Household Income					
Less than $25,000	39.4	-4.2*	4.6*	34.8	-3.9*
$25,000 to $49,999	40.6	-3.0*	4.1*	36.5	-2.2*
$50,000 to $74,999	43.5	-0.1	4.9*	38.6	-0.1
$75,000 or more	47.3	3.7*	4.5*	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.
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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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Missouri

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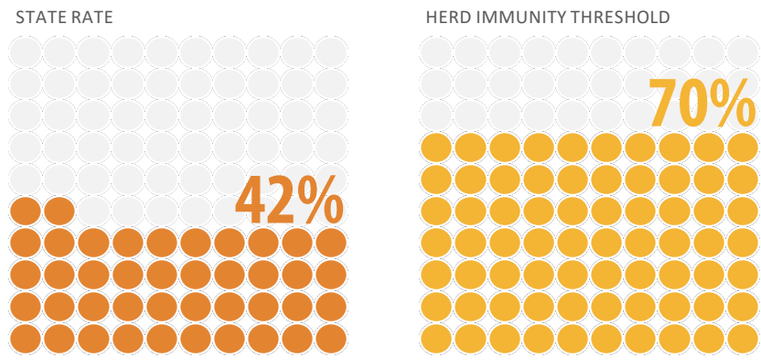

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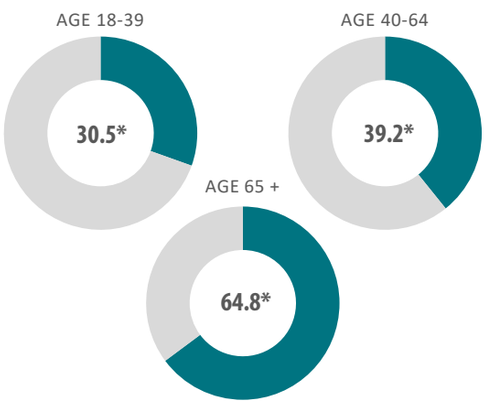

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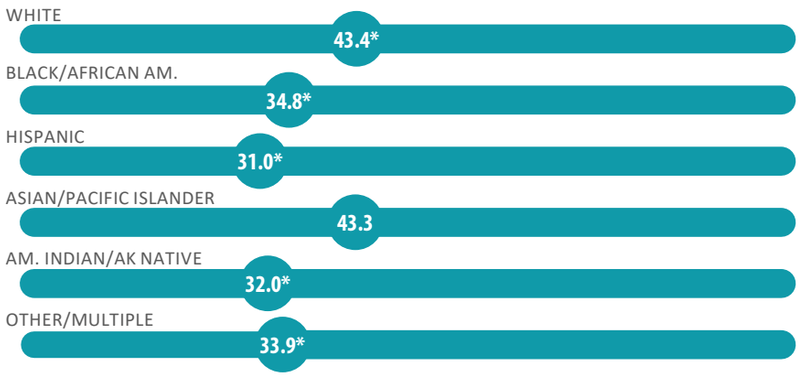

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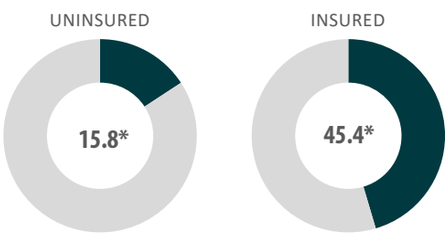

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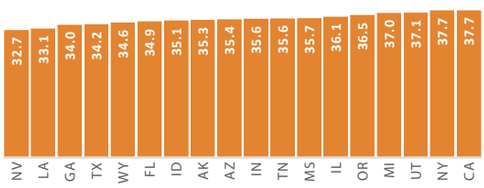

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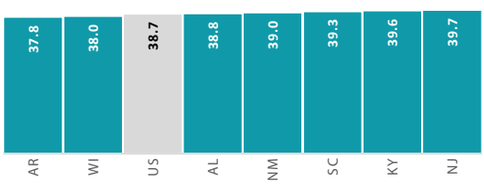

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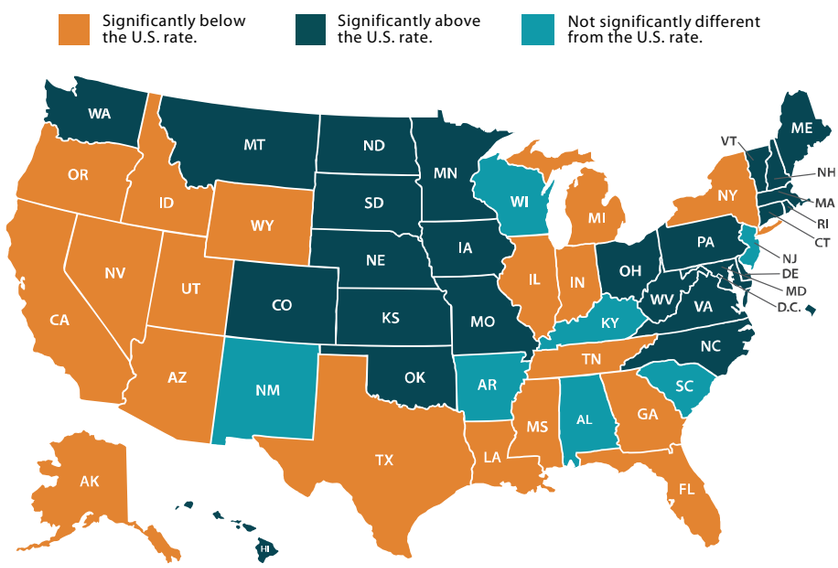

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Missouri

	Missouri			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	41.7		3.0*	38.7	
Age					
18-39	30.5	-11.2*	1.9*	28.5	-10.2*
40-64	39.2	-2.5*	2.0*	37.2	-1.5*
65+	64.8	23.1*	5.4*	59.4	20.7*
Race/Ethnicity					
White	43.4	1.8*	1.7*	41.7	3.0*
Black/African American	34.8	-6.9*	2.0	32.8	-5.9*
Hispanic	31.0	-10.6*	0.1	30.9	-7.7*
Asian/Pacific Islander	43.3	1.6	1.9	41.4	2.7*
American Indian/Alaska Native	32.0	-9.6*	-1.8	33.9	-4.8*
Other/multiple	33.9	-7.8*	-0.9	34.9	-3.8*
Sex					
Male	37.3	-4.4*	1.9*	35.4	-3.3*
Female	46.0	4.3*	4.2*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	38.3	-3.4*	2.8*	35.4	-3.3*
1+ chronic conditions	52.3	10.6*	3.1*	49.1	10.5*
Health Insurance Coverage					
Uninsured	15.8	-25.9*	-1.8	17.6	-21.1*
Insured	45.4	3.7*	3.8*	41.6	2.9*
Access to Care					
No personal doctor	20.5	-21.2*	0.4	20.1	-18.6*
Has personal doctor	48.0	6.3*	3.9*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	43.7		3.5*	40.2	
Less than high school	35.9	-7.7*	1.9	34.0	-6.1*
High school graduate	40.0	-3.7*	4.4*	35.6	-4.6*
Some college or associate's degree	41.5	-2.2*	2.7*	38.8	-1.4*
Bachelor's degree or higher	53.1	11.7*	5.2*	47.9	9.2*
Household Income					
Less than $25,000	37.6	-4.1*	2.9*	34.8	-3.9*
$25,000 to $49,999	38.8	-2.9*	2.3*	36.5	-2.2*
$50,000 to $74,999	42.1	0.5	3.5*	38.6	-0.1
$75,000 or more	47.1	5.4*	4.3*	42.8	4.1*

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Mississippi

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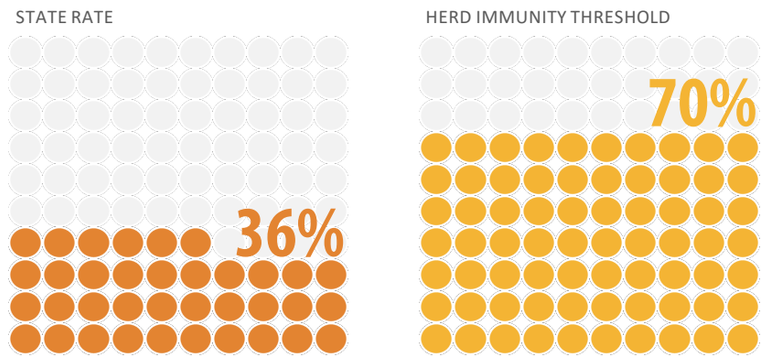

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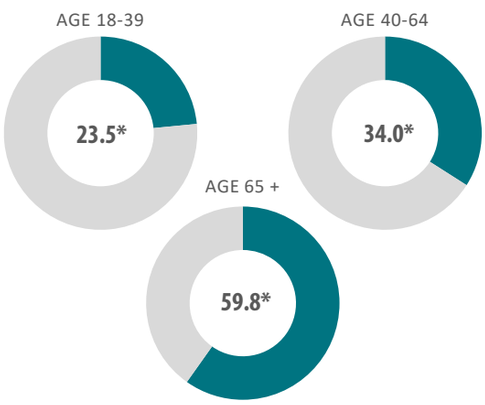

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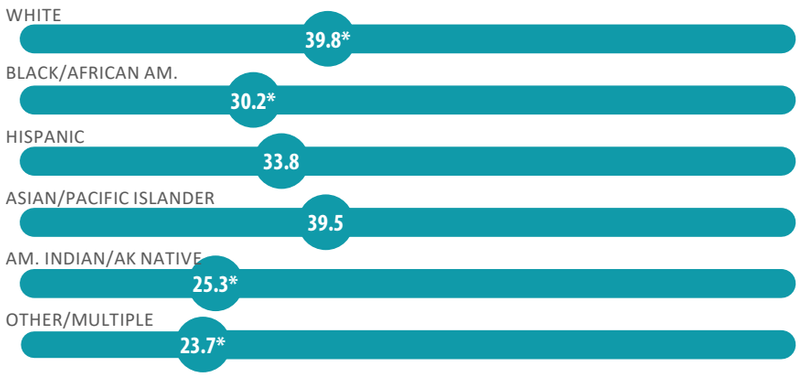

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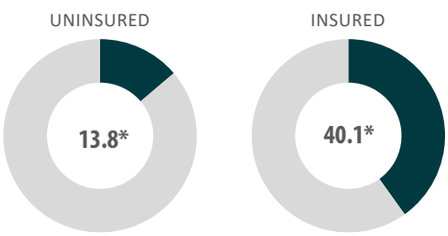

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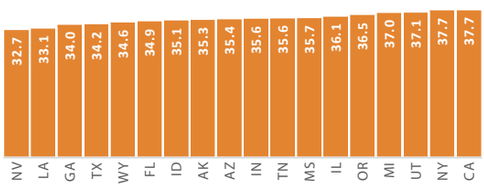

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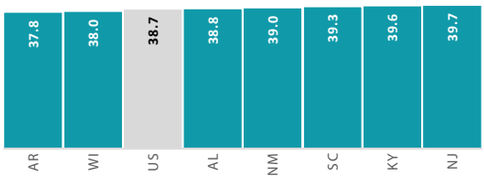

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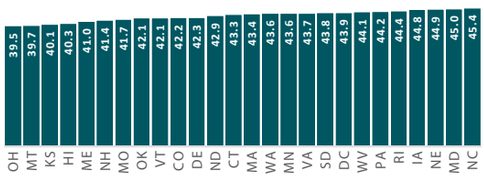

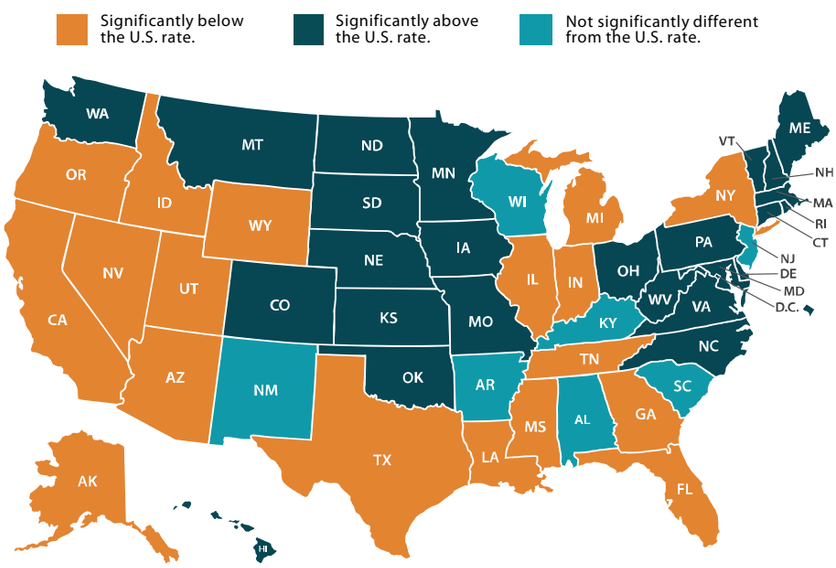

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	Mississippi			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
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Age					
18-39	23.5	-12.3*	-5.1*	28.5	-10.2*
40-64	34.0	-1.7*	-3.1*	37.2	-1.5*
65+	59.8	24.1*	0.4	59.4	20.7*
Race/Ethnicity					
White	39.8	4.0*	-2.0*	41.7	3.0*
Black/African American	30.2	-5.6*	-2.6*	32.8	-5.9*
Hispanic	33.8	-2.0	2.8	30.9	-7.7*
Asian/Pacific Islander	39.5	3.8	-1.9	41.4	2.7*
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Male	32.7	-3.0*	-2.7*	35.4	-3.3*
Female	38.6	2.9*	-3.2*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	31.2	-4.6*	-4.3*	35.4	-3.3*
1+ chronic conditions	47.5	11.8*	-1.7	49.1	10.5*
Health Insurance Coverage					
Uninsured	13.8	-21.9*	-3.8*	17.6	-21.1*
Insured	40.1	4.4*	-1.5*	41.6	2.9*
Access to Care					
No personal doctor	17.8	-17.9*	-2.3*	20.1	-18.6*
Has personal doctor	41.6	5.9*	-2.5*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	37.9		-2.2*	40.2	
Less than high school	35.5	-2.5	1.4	34.0	-6.1*
High school graduate	35.7	-2.3*	0.1	35.6	-4.6*
Some college or associate's degree	36.4	-1.6*	-2.4*	38.8	-1.4*
Bachelor's degree or higher	45.4	9.0*	-2.6*	47.9	9.2*
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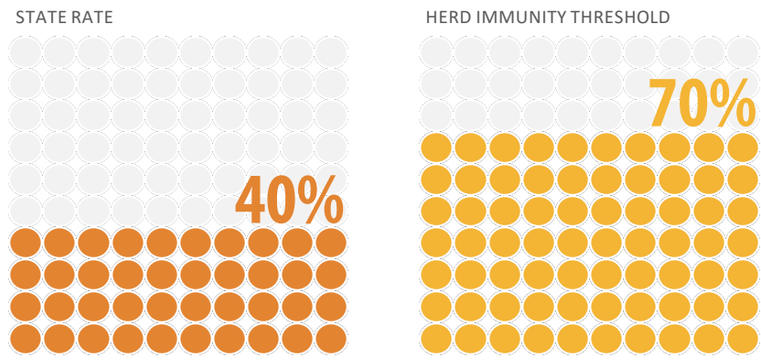

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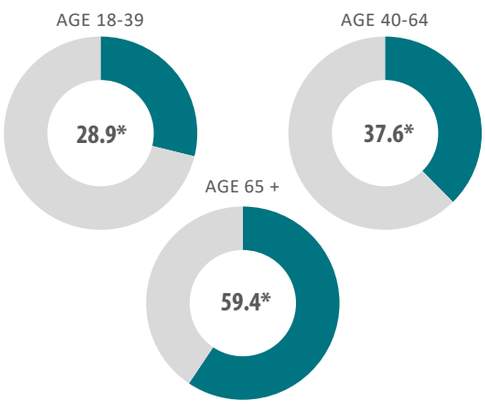

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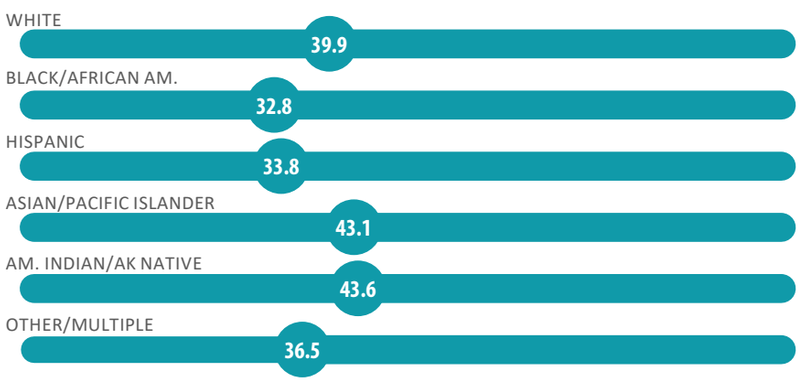

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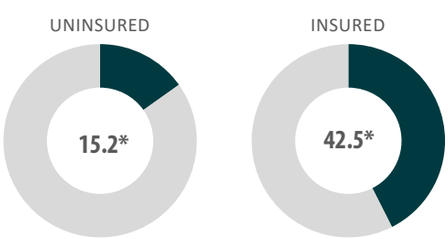

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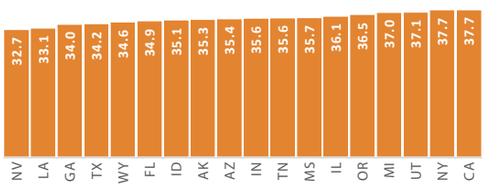

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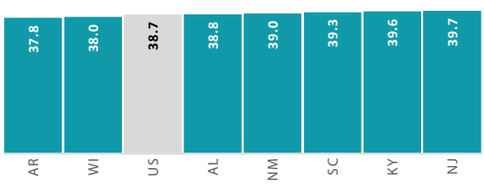

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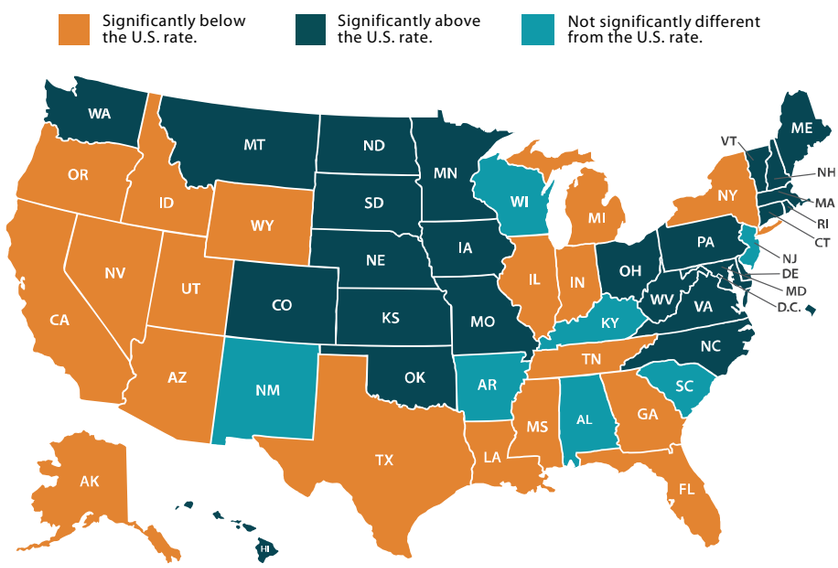

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Montana

	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

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.

North Carolina

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.

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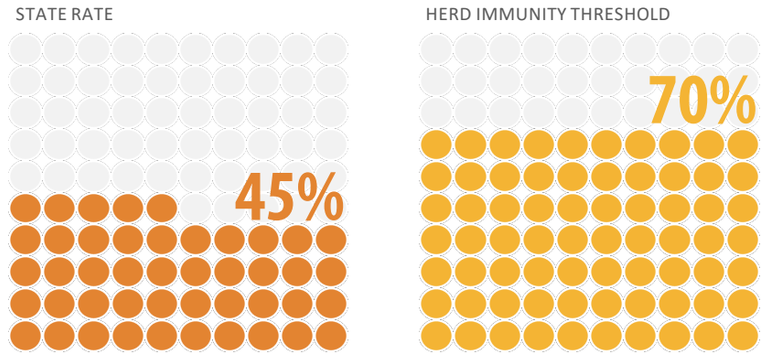
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold



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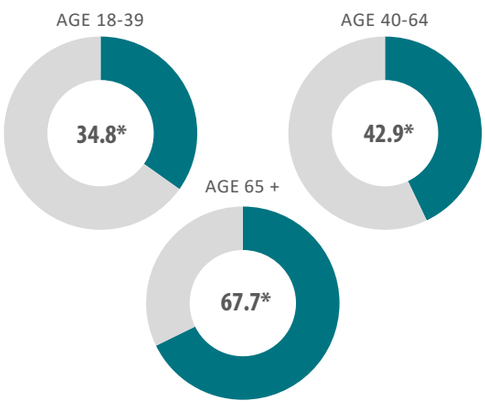
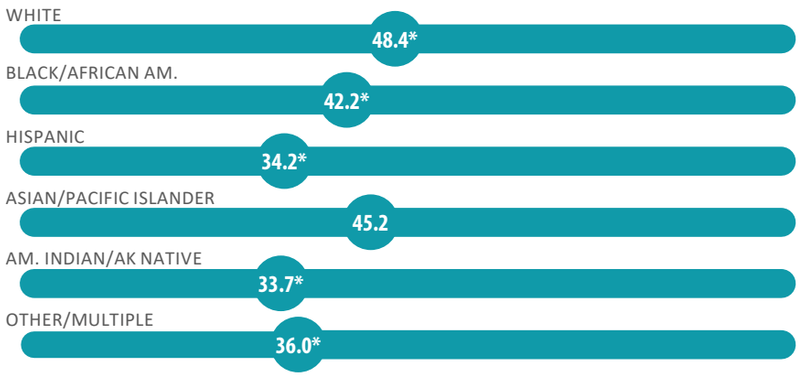


Flu Vaccination Rates by Race/Ethnicity



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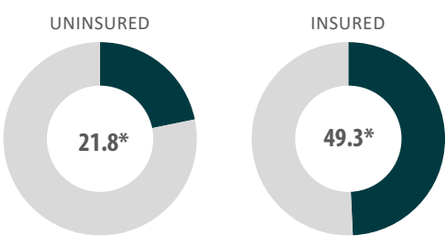

Flu Vaccination Rates by Household Income

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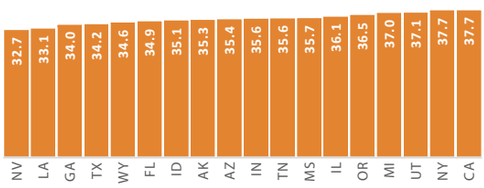

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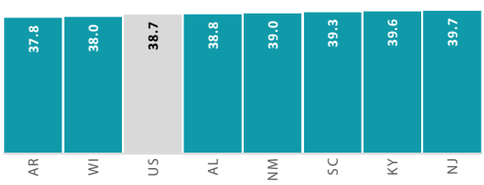

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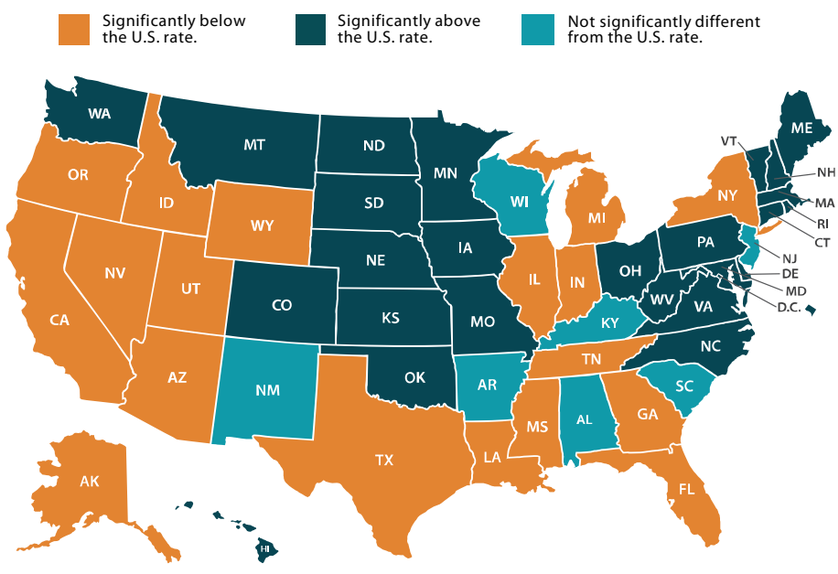

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

North Carolina

	North Carolina			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	45.4		6.7*	38.7	
Age					
18-39	34.8	-10.5*	6.3*	28.5	-10.2*
40-64	42.9	-2.4*	5.7*	37.2	-1.5*
65+	67.7	22.4*	8.4*	59.4	20.7*
Race/Ethnicity					
White	48.4	3.0*	6.7*	41.7	3.0*
Black/African American	42.2	-3.2*	9.4*	32.8	-5.9*
Hispanic	34.2	-11.2*	3.2	30.9	-7.7*
Asian/Pacific Islander	45.2	-0.1	3.9	41.4	2.7*
American Indian/Alaska Native	33.7	-11.6*	-0.2	33.9	-4.8*
Other/multiple	36.0	-9.4*	1.1	34.9	-3.8*
Sex					
Male	41.8	-3.5*	6.5*	35.4	-3.3*
Female	48.5	3.1*	6.7*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	41.6	-3.8*	6.1*	35.4	-3.3*
1+ chronic conditions	56.6	11.3*	7.5*	49.1	10.5*
Health Insurance Coverage					
Uninsured	21.8	-23.6*	4.2*	17.6	-21.1*
Insured	49.3	3.9*	7.6*	41.6	2.9*
Access to Care					
No personal doctor	23.8	-21.6*	3.7*	20.1	-18.6*
Has personal doctor	51.4	6.0*	7.3*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	46.8		6.7*	40.2	
Less than high school	43.3	-3.6*	9.2*	34.0	-6.1*
High school graduate	42.9	-3.9*	7.3*	35.6	-4.6*
Some college or associate's degree	45.1	-1.7*	6.3*	38.8	-1.4*
Bachelor's degree or higher	53.7	8.7*	5.8*	47.9	9.2*
Household Income					
Less than $25,000	42.7	-2.7*	7.9*	34.8	-3.9*
$25,000 to $49,999	42.1	-3.2*	5.6*	36.5	-2.2*
$50,000 to $74,999	43.9	-1.4	5.3*	38.6	-0.1
$75,000 or more	50.2	4.9*	7.4*	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.
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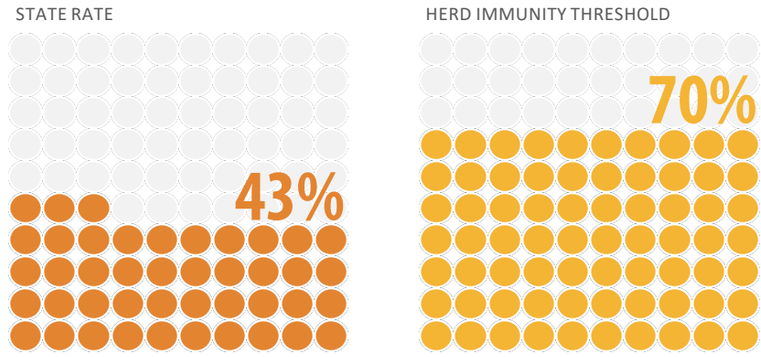
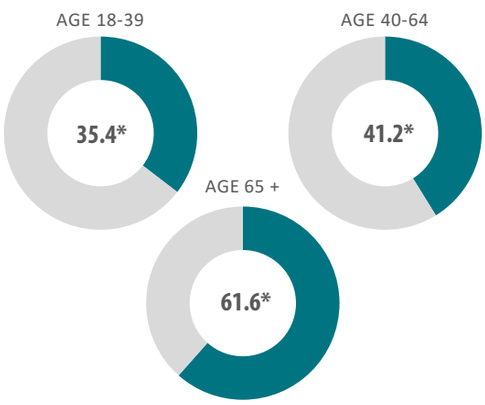


Flu Vaccination Rates by Age



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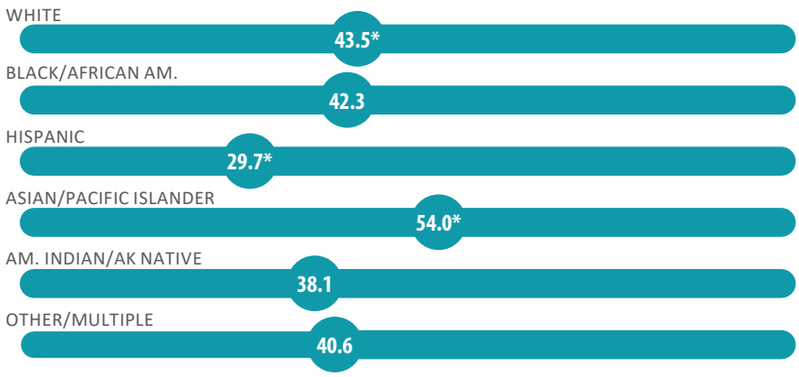

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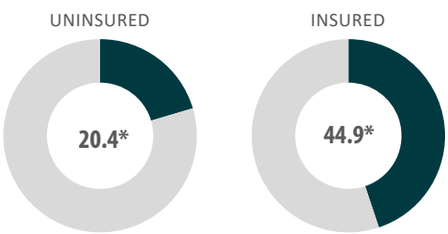

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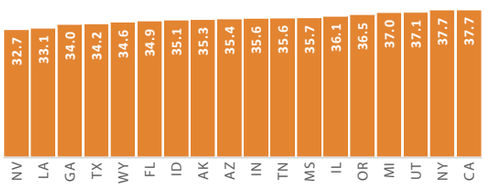

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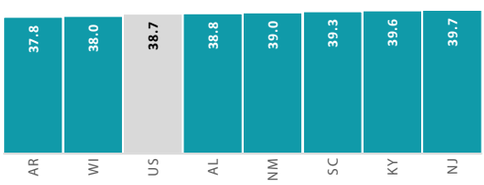

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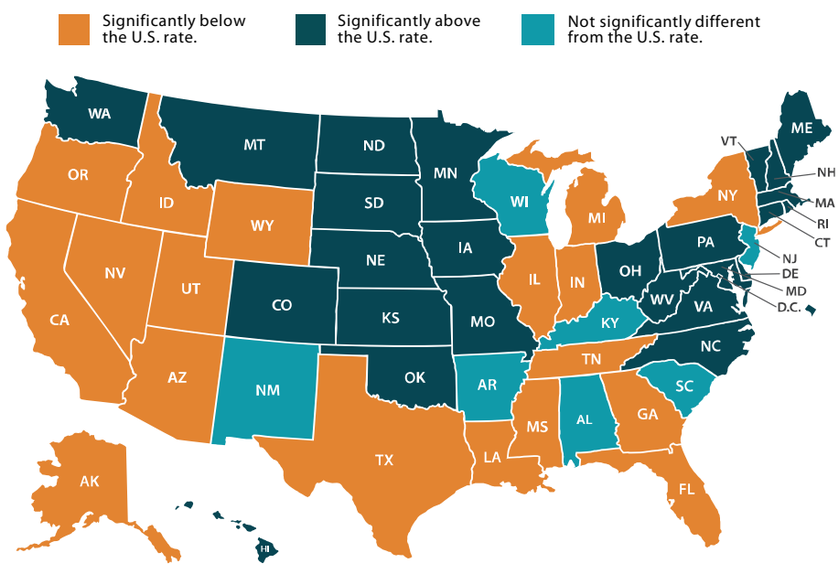

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18-39	35.4	-7.5*	6.9*	28.5	-10.2*
40-64	41.2	-1.7*	4.0*	37.2	-1.5*
65+	61.6	18.6*	2.2*	59.4	20.7*
Race/Ethnicity					
White	43.5	0.6*	1.8*	41.7	3.0*
Black/African American	42.3	-0.6	9.5*	32.8	-5.9*
Hispanic	29.7	-13.2*	-1.2	30.9	-7.7*
Asian/Pacific Islander	54.0	11.1*	12.6*	41.4	2.7*
American Indian/Alaska Native	38.1	-4.8	4.2	33.9	-4.8*
Other/multiple	40.6	-2.3	5.8	34.9	-3.8*
Sex					
Male	37.7	-5.2*	2.3*	35.4	-3.3*
Female	48.3	5.4*	6.5*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	40.0	-2.9*	4.6*	35.4	-3.3*
1+ chronic conditions	53.6	10.7*	4.4*	49.1	10.5*
Health Insurance Coverage					
Uninsured	20.4	-22.5*	2.8	17.6	-21.1*
Insured	44.9	2.0*	3.3*	41.6	2.9*
Access to Care					
No personal doctor	23.4	-19.5*	3.3*	20.1	-18.6*
Has personal doctor	50.7	7.8*	6.6*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	43.8		3.7*	40.2	
Less than high school	35.4	-8.5*	1.3	34.0	-6.1*
High school graduate	36.7	-7.1*	1.1	35.6	-4.6*
Some college or associate's degree	42.9	-0.9	4.1*	38.8	-1.4*
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Household Income					
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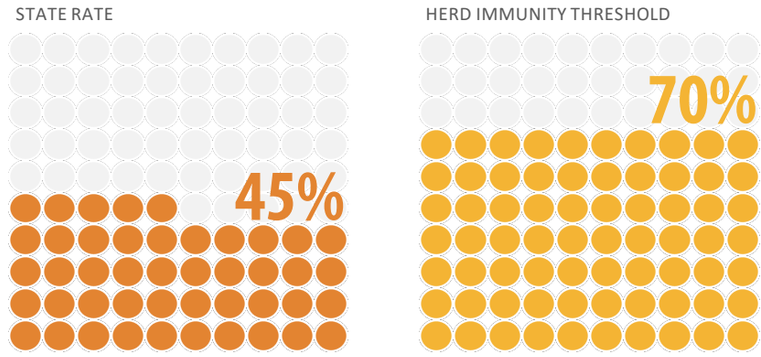

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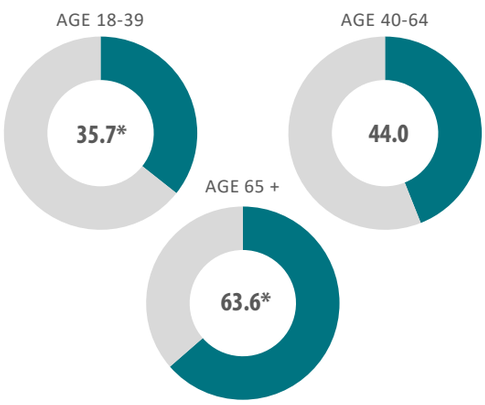

Flu Vaccination Rates by Race/Ethnicity

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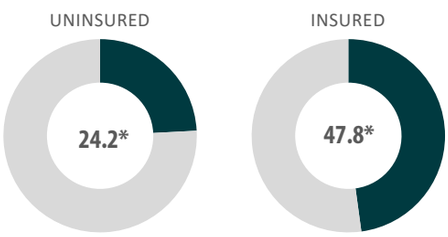

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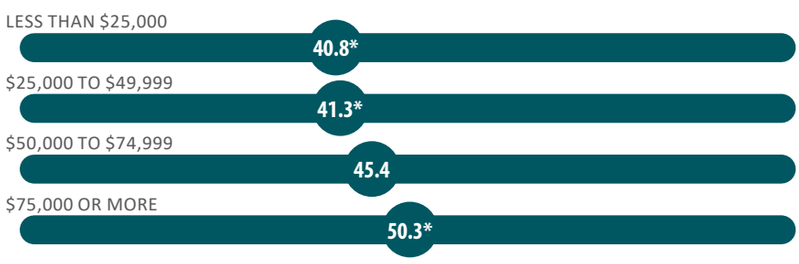

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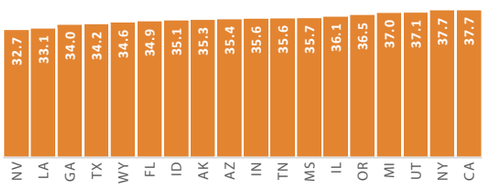

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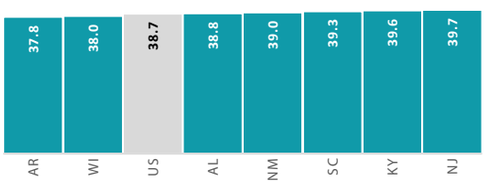

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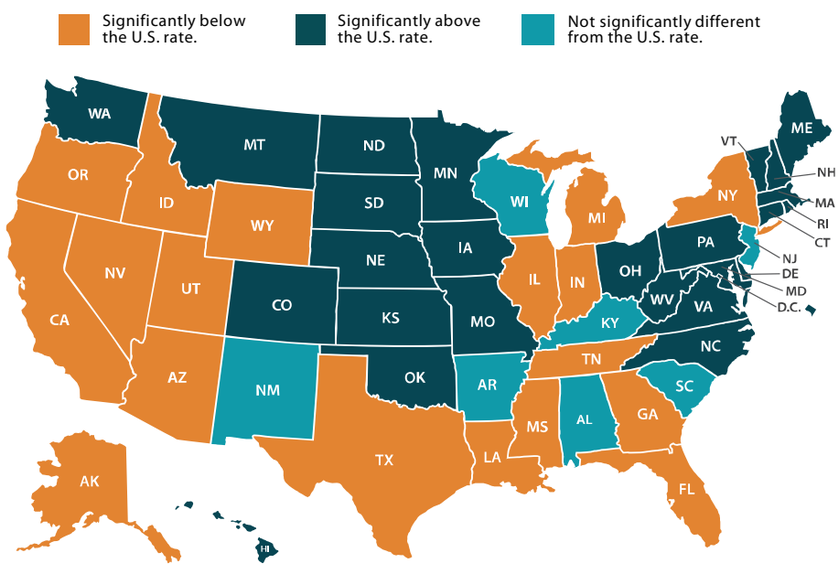

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Race/Ethnicity					
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Black/African American	37.0	-7.9*	4.3	32.8	-5.9*
Hispanic	36.4	-8.5*	5.5*	30.9	-7.7*
Asian/Pacific Islander	37.8	-7.2*	-3.6	41.4	2.7*
American Indian/Alaska Native	40.1	-4.8	6.2	33.9	-4.8*
Other/multiple	37.3	-7.7*	2.4	34.9	-3.8*
Sex					
Male	40.1	-4.9*	4.7*	35.4	-3.3*
Female	49.7	4.8*	7.9*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	42.3	-2.6*	6.9*	35.4	-3.3*
1+ chronic conditions	54.2	9.2*	5.0*	49.1	10.5*
Health Insurance Coverage					
Uninsured	24.2	-20.8*	6.6*	17.6	-21.1*
Insured	47.8	2.9*	6.2*	41.6	2.9*
Access to Care					
No personal doctor	25.6	-19.4*	5.5*	20.1	-18.6*
Has personal doctor	50.0	5.1*	5.9*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	46.8		6.6*	40.2	
Less than high school	38.6	-8.2*	4.5*	34.0	-6.1*
High school graduate	44.0	-2.8*	8.4*	35.6	-4.6*
Some college or associate's degree	43.9	-2.9*	5.2*	38.8	-1.4*
Bachelor's degree or higher	54.9	10.9*	6.9*	47.9	9.2*
Household Income					
Less than $25,000	40.8	-4.2*	6.0*	34.8	-3.9*
$25,000 to $49,999	41.3	-3.6*	4.8*	36.5	-2.2*
$50,000 to $74,999	45.4	0.5	6.8*	38.6	-0.1
$75,000 or more	50.3	5.4*	7.5*	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.
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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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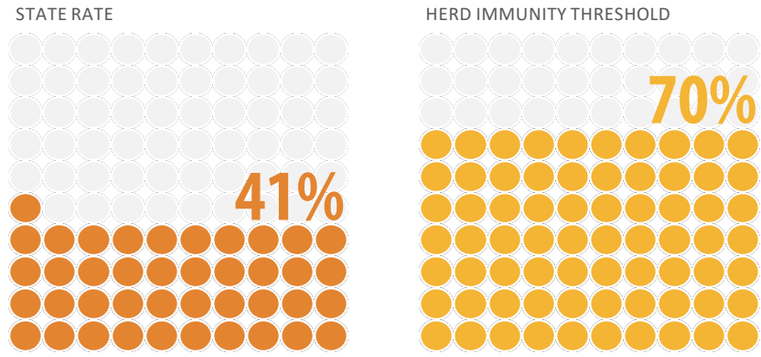
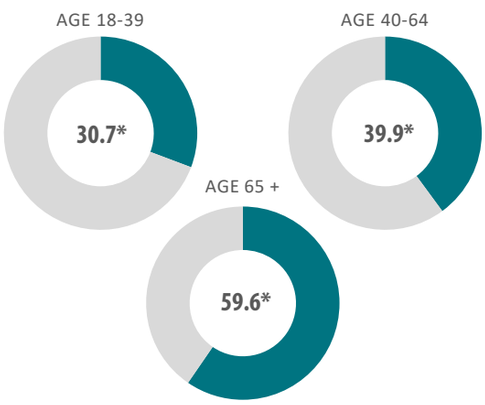


Flu Vaccination Rates by Age



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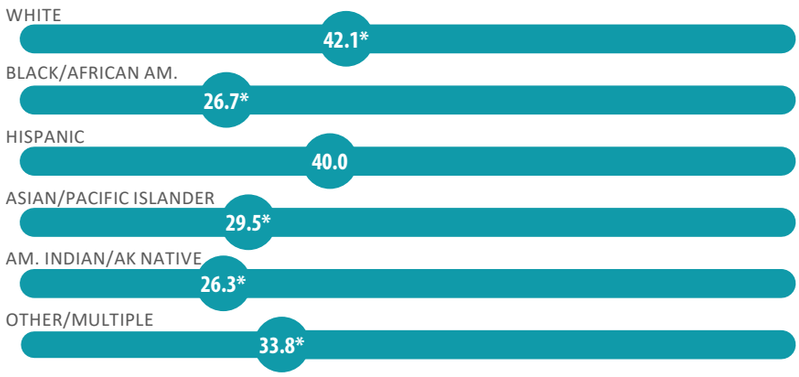

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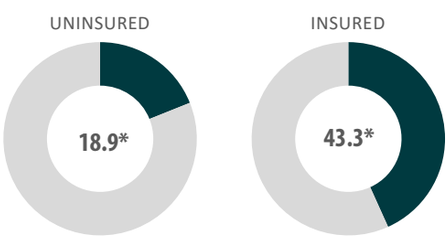

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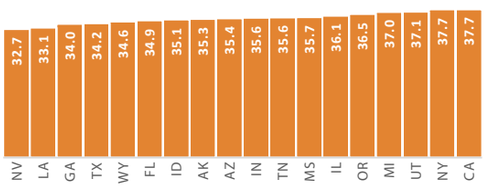
State vs. National Adult Flu Vaccination Rates

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



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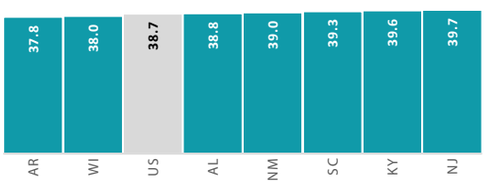

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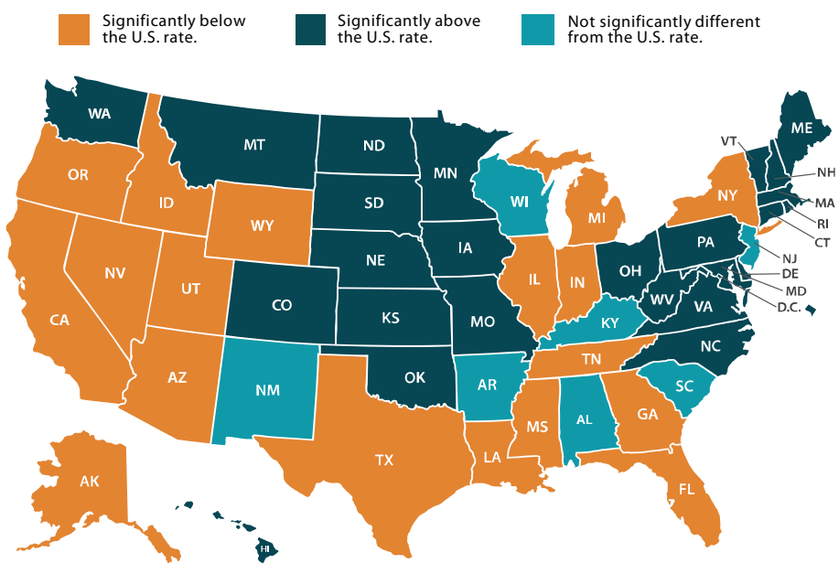

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

New Hampshire

	New Hampshire			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	41.4		2.7*	38.7	
Age					
18-39	30.7	-10.6*	2.2	28.5	-10.2*
40-64	39.9	-1.5*	2.7*	37.2	-1.5*
65+	59.6	18.2*	0.2	59.4	20.7*
Race/Ethnicity					
White	42.1	0.7*	0.4	41.7	3.0*
Black/African American	26.7	-14.7*	-6.1	32.8	-5.9*
Hispanic	40.0	-1.4	9.1	30.9	-7.7*
Asian/Pacific Islander	29.5	-11.8*	-11.8*	41.4	2.7*
American Indian/Alaska Native	26.3	-15.1*	-7.6	33.9	-4.8*
Other/multiple	33.8	-7.5*	-1.0	34.9	-3.8*
Sex					
Male	39.3	-2.1*	3.9*	35.4	-3.3*
Female	43.4	2.0*	1.6*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	38.8	-2.6*	3.4*	35.4	-3.3*
1+ chronic conditions	49.5	8.1*	0.4	49.1	10.5*
Health Insurance Coverage					
Uninsured	18.9	-22.4*	1.4	17.6	-21.1*
Insured	43.3	1.9*	1.6*	41.6	2.9*
Access to Care					
No personal doctor	20.5	-20.8*	0.4	20.1	-18.6*
Has personal doctor	44.4	3.0*	0.3	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	42.5		2.3*	40.2	
Less than high school	33.5	-9.0*	-0.6	34.0	-6.1*
High school graduate	34.1	-8.4*	-1.5	35.6	-4.6*
Some college or associate's degree	42.1	-0.4	3.3*	38.8	-1.4*
Bachelor's degree or higher	51.0	8.9*	3.1*	47.9	9.2*
Household Income					
Less than $25,000	37.2	-4.2*	2.4*	34.8	-3.9*
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New Jersey

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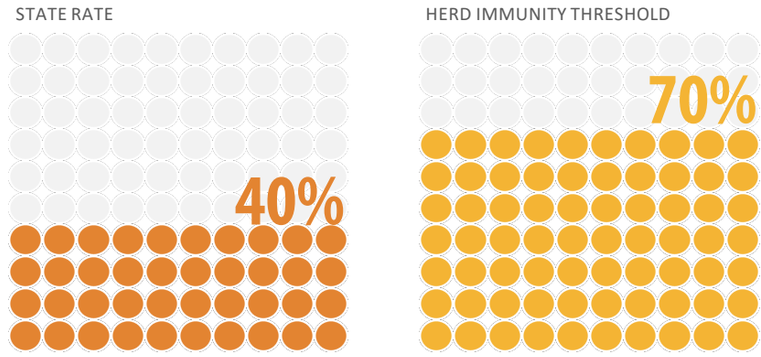

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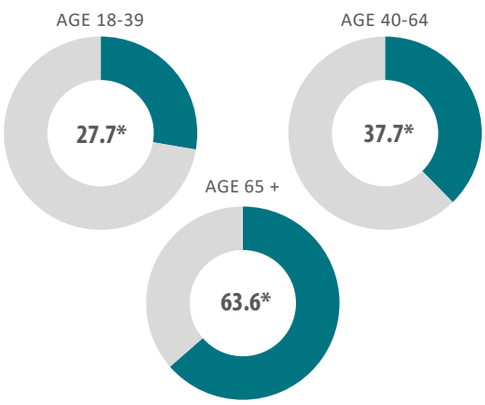

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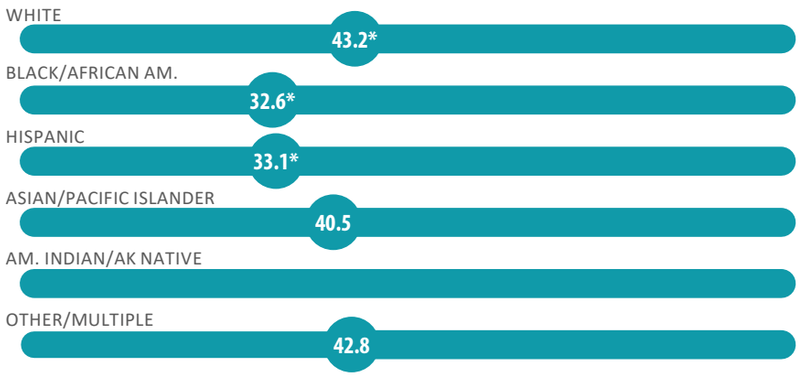

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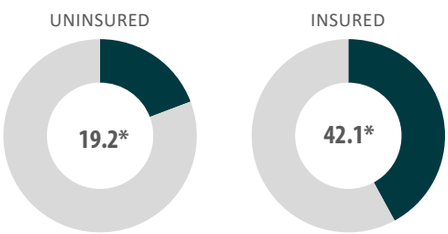

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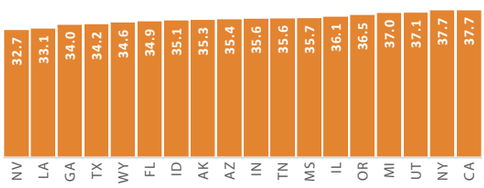

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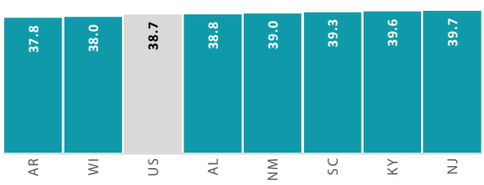

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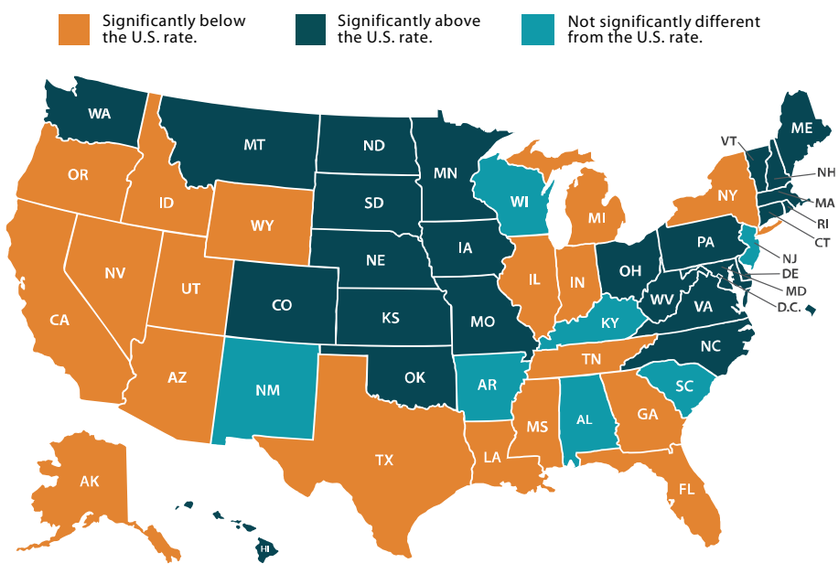

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SHADAC's analysis of 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) Data.

New Jersey

	New Jersey			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	27.7	-12.0*	-0.8	28.5	-10.2*
40-64	37.7	-2.0*	0.5	37.2	-1.5*
65+	63.6	23.9*	4.2*	59.4	20.7*
Race/Ethnicity					
White	43.2	3.5*	1.5	41.7	3.0*
Black/African American	32.6	-7.0*	-0.1	32.8	-5.9*
Hispanic	33.1	-6.6*	2.1	30.9	-7.7*
Asian/Pacific Islander	40.5	0.8	-0.9	41.4	2.7*
American Indian/Alaska Native	-	-	-	33.9	-4.8*
Other/multiple	42.8	3.1	8.0	34.9	-3.8*
Sex					
Male	37.6	-2.1*	2.3	35.4	-3.3*
Female	41.5	1.9*	-0.3	41.8	3.1*
Chronic Condition Status					
No chronic conditions	36.0	-3.7*	0.6	35.4	-3.3*
1+ chronic conditions	52.0	12.3*	2.8	49.1	10.5*
Health Insurance Coverage					
Uninsured	19.2	-20.4*	1.7	17.6	-21.1*
Insured	42.1	2.4*	0.4	41.6	2.9*
Access to Care					
No personal doctor	24.8	-14.9*	4.6*	20.1	-18.6*
Has personal doctor	43.5	3.8*	-0.6	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	41.4		1.2	40.2	
Less than high school	38.4	-2.9	4.4	34.0	-6.1*
High school graduate	37.8	-3.6*	2.2	35.6	-4.6*
Some college or associate's degree	41.5	0.1	2.7	38.8	-1.4*
Bachelor's degree or higher	44.8	3.3*	-3.2*	47.9	9.2*
Household Income					
Less than $25,000	37.2	-2.5*	2.4*	34.8	-3.9*
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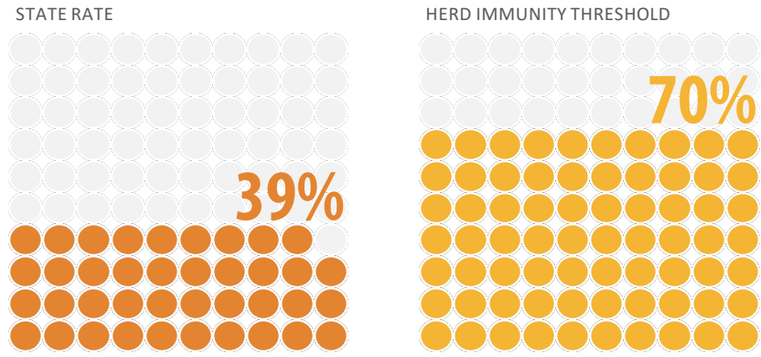

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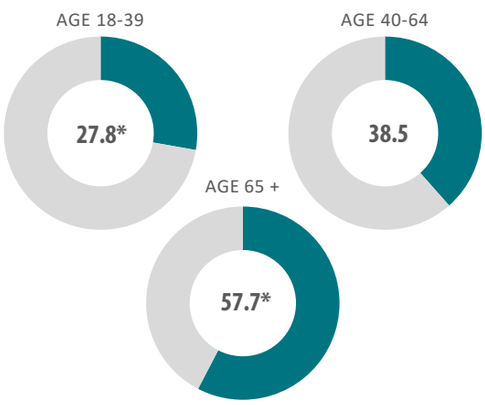
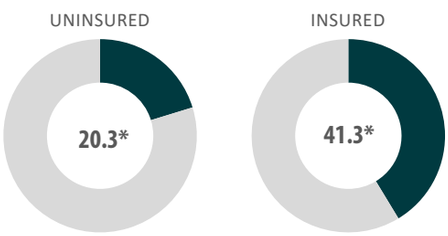


Flu Vaccination Rates by Race/Ethnicity

Flu Vaccination Rates by Insurance Status



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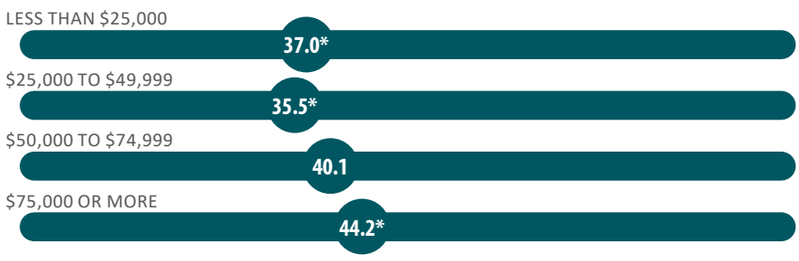

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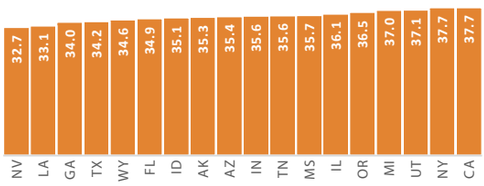

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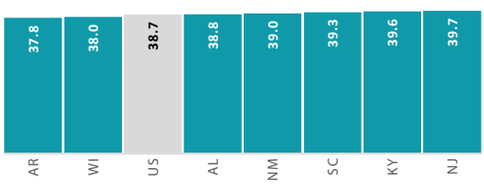

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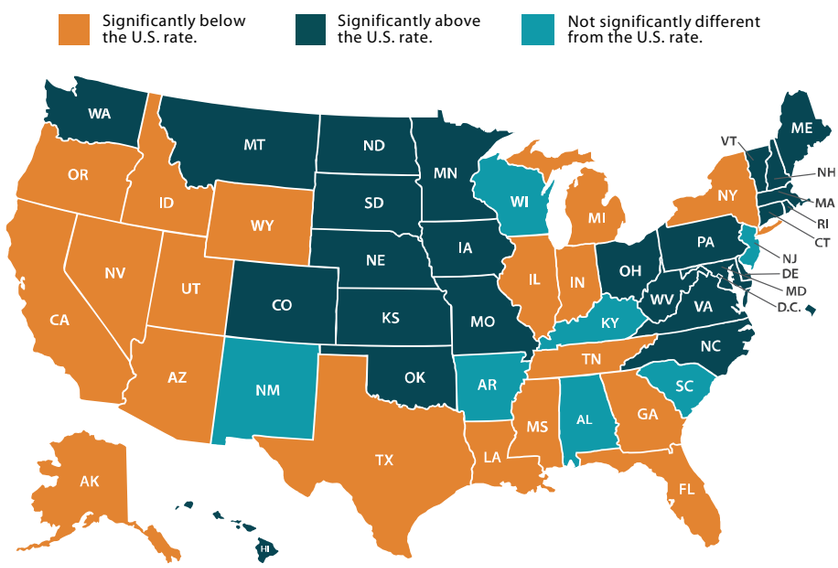

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Chronic Condition Status					
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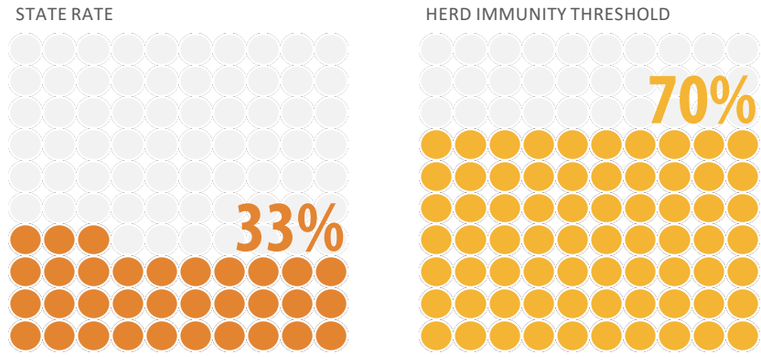
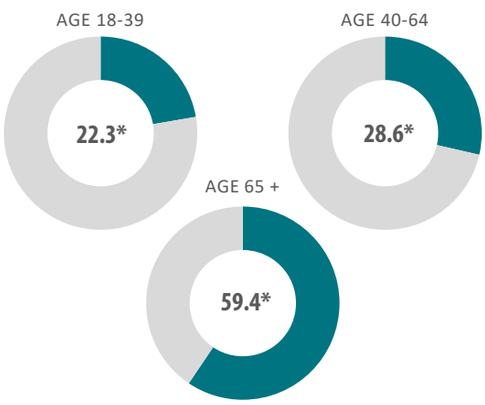


Flu Vaccination Rates by Age



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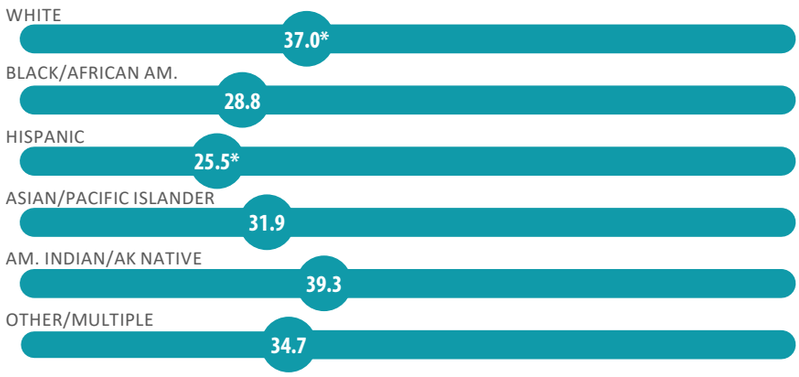

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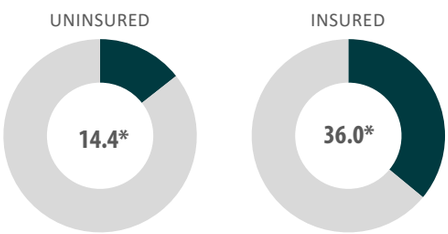

Flu Vaccination Rates by Household Income

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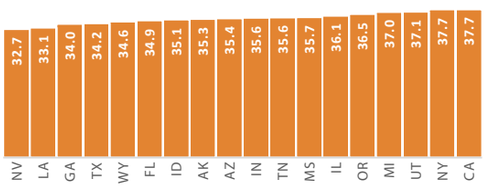
State vs. National Adult Flu Vaccination Rates

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



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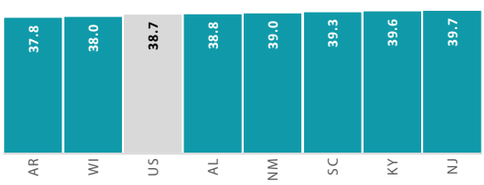

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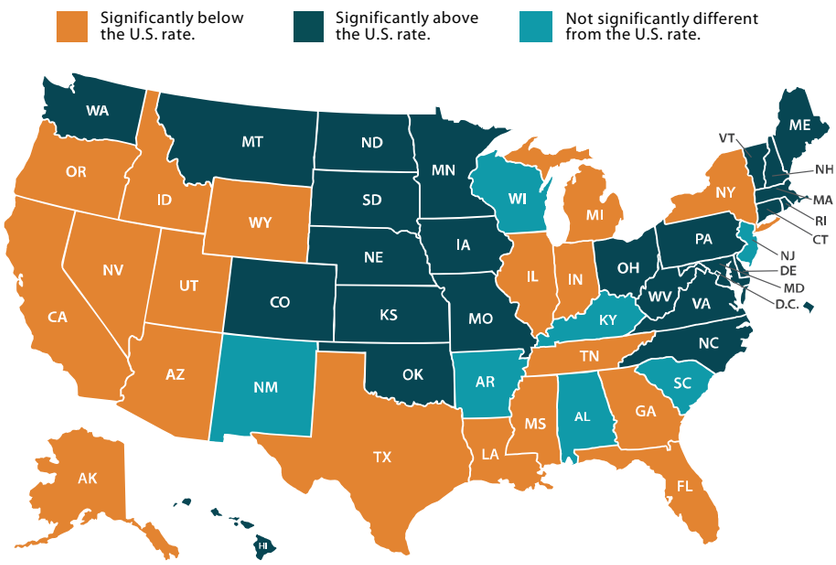

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Nevada

	Nevada			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	32.7		-6.0*	38.7	
Age					
18-39	22.3	-10.4*	-6.2*	28.5	-10.2*
40-64	28.6	-4.1*	-8.6*	37.2	-1.5*
65+	59.4	26.8*	0.0	59.4	20.7*
Race/Ethnicity					
White	37.0	4.4*	-4.7*	41.7	3.0*
Black/African American	28.8	-3.9	-4.0	32.8	-5.9*
Hispanic	25.5	-7.2*	-5.4*	30.9	-7.7*
Asian/Pacific Islander	31.9	-0.7	-9.5*	41.4	2.7*
American Indian/Alaska Native	39.3	6.6	5.4	33.9	-4.8*
Other/multiple	34.7	2.1	-0.1	34.9	-3.8*
Sex					
Male	30.3	-2.4*	-5.1*	35.4	-3.3*
Female	34.9	2.2*	-6.9*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	28.6	-4.1*	-6.8*	35.4	-3.3*
1+ chronic conditions	45.3	12.7*	-3.8*	49.1	10.5*
Health Insurance Coverage					
Uninsured	14.4	-18.3*	-3.2*	17.6	-21.1*
Insured	36.0	3.3*	-5.6*	41.6	2.9*
Access to Care					
No personal doctor	17.5	-15.1*	-2.6*	20.1	-18.6*
Has personal doctor	39.9	7.2*	-4.2*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	34.0		-6.2*	40.2	
Less than high school	25.7	-8.3*	-8.4*	34.0	-6.1*
High school graduate	30.5	-3.5*	-5.1*	35.6	-4.6*
Some college or associate's degree	35.3	1.3	-3.4*	38.8	-1.4*
Bachelor's degree or higher	41.4	6.0*	-6.6*	47.9	9.2*
Household Income					
Less than $25,000	29.7	-2.9*	-5.0*	34.8	-3.9*
$25,000 to $49,999	33.4	0.8	-3.1*	36.5	-2.2*
$50,000 to $74,999	33.2	0.6	-5.4*	38.6	-0.1
$75,000 or more	35.5	2.8*	-7.4*	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

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

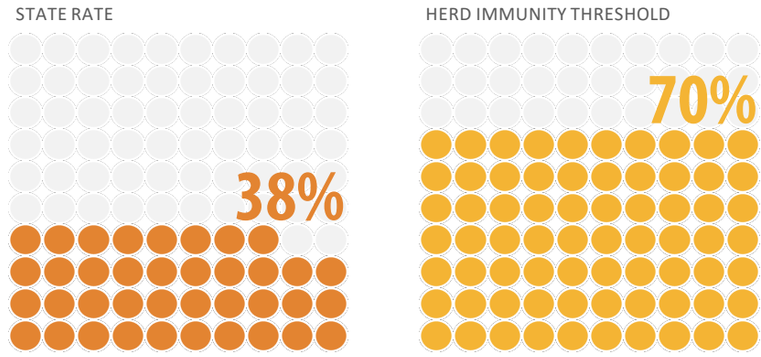
SHADAC's analysis of 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) Data.

New York

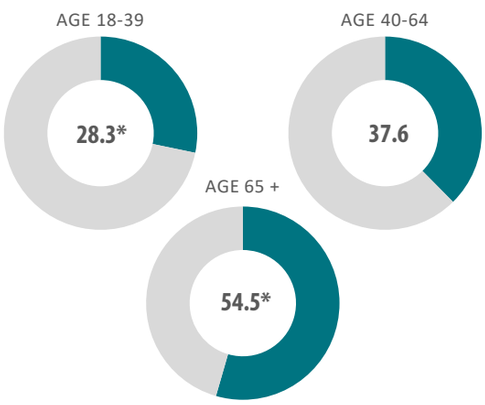
Though there is no consensus on one singular figure needed to achieve what is commonly known as "herd immunity" (i.e., sufficient levels of COVID vaccinations in order to achieve protective population immunity) scientists and researchers have generally agreed on a range of 70-90% of the population being 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

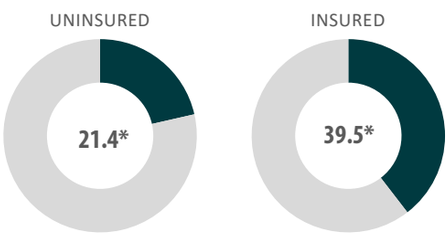


Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity

Flu Vaccination Rates by Insurance Status



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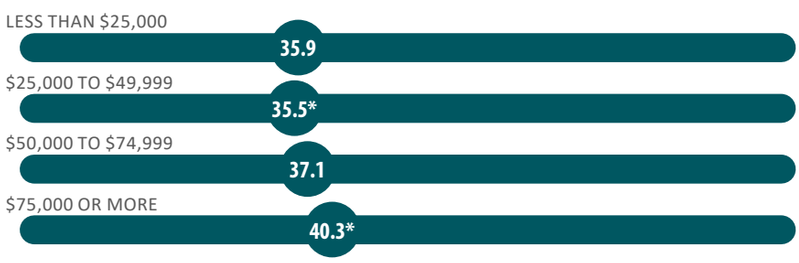

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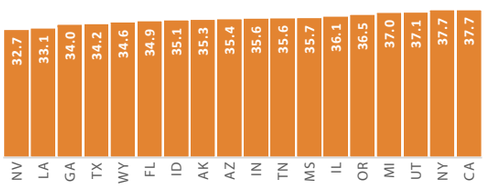
State vs. National Adult Flu Vaccination Rates

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



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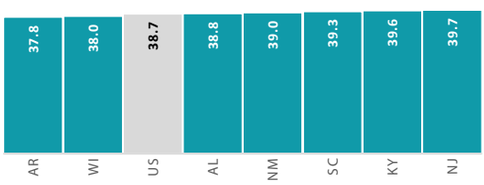

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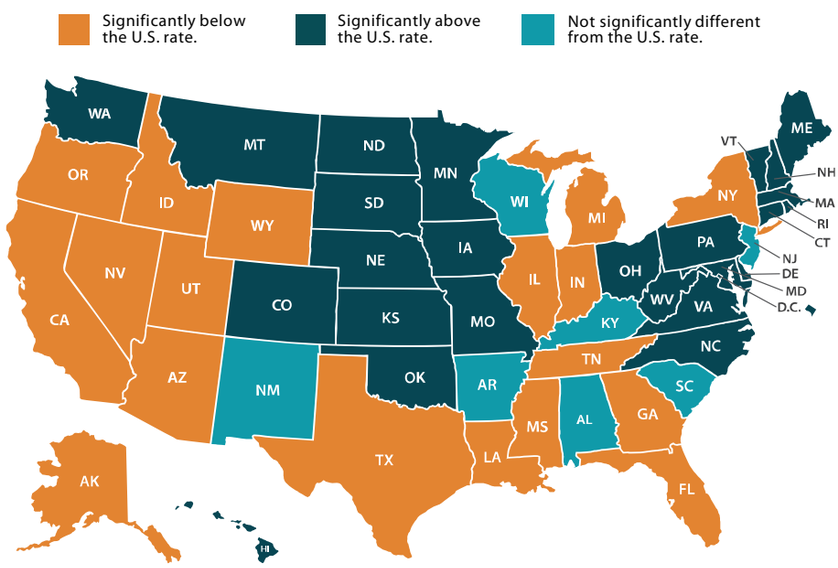

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

New York

	New York			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	37.7		-1.0*	38.7	
Age					
18-39	28.3	-9.4*	-0.3	28.5	-10.2*
40-64	37.6	-0.1	0.4	37.2	-1.5*
65+	54.5	16.8*	-4.9*	59.4	20.7*
Race/Ethnicity					
White	40.2	2.5*	-1.5*	41.7	3.0*
Black/African American	31.1	-6.6*	-1.7	32.8	-5.9*
Hispanic	34.4	-3.3*	3.4*	30.9	-7.7*
Asian/Pacific Islander	38.8	1.1	-2.6	41.4	2.7*
American Indian/Alaska Native	37.8	0.1	3.9	33.9	-4.8*
Other/multiple	33.7	-4.0*	-1.2	34.9	-3.8*
Sex					
Male	34.1	-3.5*	-1.2*	35.4	-3.3*
Female	40.9	3.2*	-0.9	41.8	3.1*
Chronic Condition Status					
No chronic conditions	34.6	-3.1*	-0.8*	35.4	-3.3*
1+ chronic conditions	47.4	9.8*	-1.7*	49.1	10.5*
Health Insurance Coverage					
Uninsured	21.4	-16.3*	3.8*	17.6	-21.1*
Insured	39.5	1.9*	-2.1*	41.6	2.9*
Access to Care					
No personal doctor	21.2	-16.5*	1.1	20.1	-18.6*
Has personal doctor	41.5	3.8*	-2.6*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	38.9		-1.3*	40.2	
Less than high school	36.1	-2.8*	2.1	34.0	-6.1*
High school graduate	35.3	-3.6*	-0.3	35.6	-4.6*
Some college or associate's degree	36.4	-2.5*	-2.4*	38.8	-1.4*
Bachelor's degree or higher	44.2	7.8*	-3.8*	47.9	9.2*
Household Income					
Less than $25,000	35.9	-1.7	1.2	34.8	-3.9*
$25,000 to $49,999	35.5	-2.2*	-1.0	36.5	-2.2*
$50,000 to $74,999	37.1	-0.6	-1.5	38.6	-0.1
$75,000 or more	40.3	2.6*	-2.5*	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.
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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.

Ohio

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.

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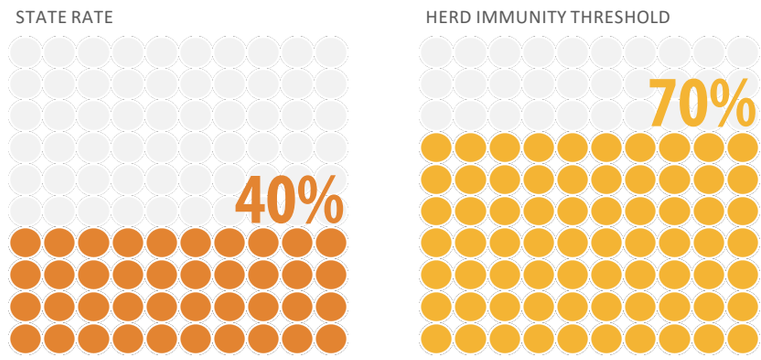
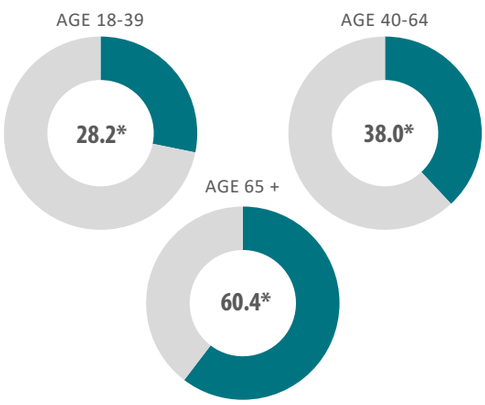
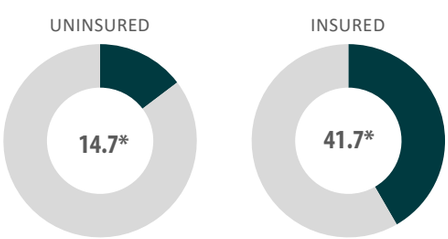


Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity

Flu Vaccination Rates by Insurance Status



Flu Vaccination Rates by Household Income

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State vs. National Adult Flu Vaccination Rates

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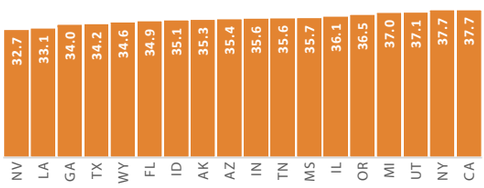

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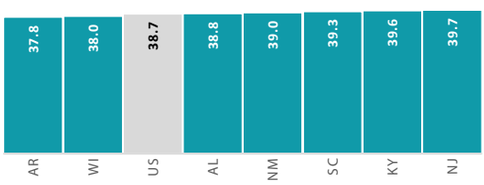

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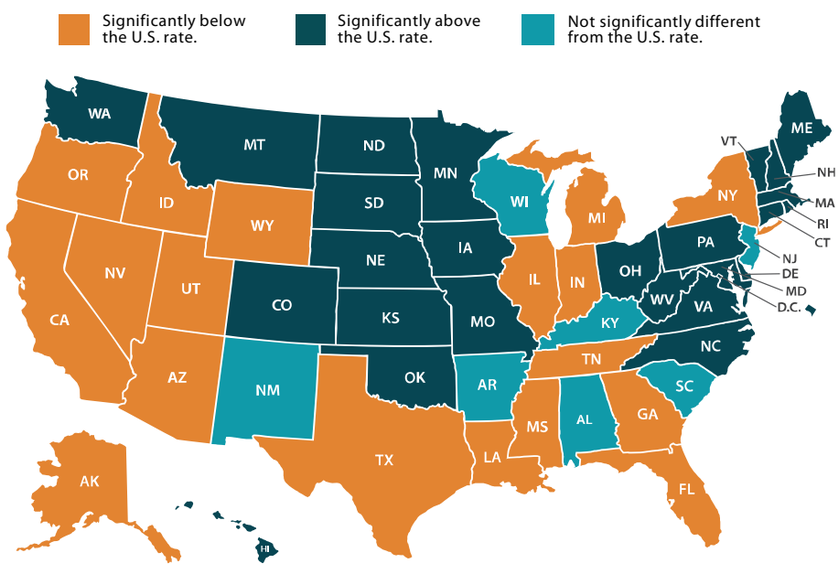

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Ohio	Ohio			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	39.5		0.8*	38.7	
Age					
18-39	28.2	-11.3*	-0.3	28.5	-10.2*
40-64	38.0	-1.5*	0.9	37.2	-1.5*
65+	60.4	20.8*	1.0	59.4	20.7*
Race/Ethnicity					
White	40.7	1.2*	-1.0*	41.7	3.0*
Black/African American	34.8	-4.7*	2.1	32.8	-5.9*
Hispanic	31.5	-8.0*	0.6	30.9	-7.7*
Asian/Pacific Islander	40.0	0.5	-1.4	41.4	2.7*
American Indian/Alaska Native	34.8	-4.8	0.9	33.9	-4.8*
Other/multiple	31.3	-8.2*	-3.5	34.9	-3.8*
Sex					
Male	35.6	-3.9*	0.2	35.4	-3.3*
Female	43.1	3.6*	1.3*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	35.6	-3.9*	0.2	35.4	-3.3*
1+ chronic conditions	50.7	11.2*	1.6*	49.1	10.5*
Health Insurance Coverage					
Uninsured	14.7	-24.8*	-2.9*	17.6	-21.1*
Insured	41.7	2.1*	0.0	41.6	2.9*
Access to Care					
No personal doctor	18.3	-21.2*	-1.8*	20.1	-18.6*
Has personal doctor	44.6	5.1*	0.5	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	41.2		1.0*	40.2	
Less than high school	34.3	-6.9*	0.3	34.0	-6.1*
High school graduate	37.1	-4.1*	1.5*	35.6	-4.6*
Some college or associate's degree	40.3	-0.8	1.6*	38.8	-1.4*
Bachelor's degree or higher	49.6	9.3*	1.7*	47.9	9.2*
Household Income					
Less than $25,000	37.1	-2.5*	2.3*	34.8	-3.9*
$25,000 to $49,999	37.8	-1.7	1.3	36.5	-2.2*
$50,000 to $74,999	39.3	-0.3	0.7	38.6	-0.1
$75,000 or more	42.6	3.1*	-0.2	42.8	4.1*

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Oklahoma

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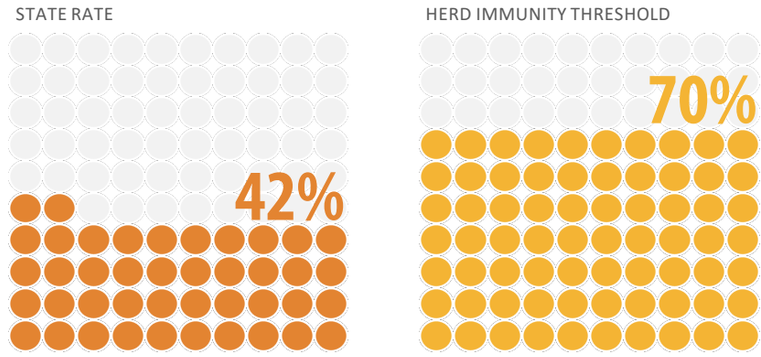
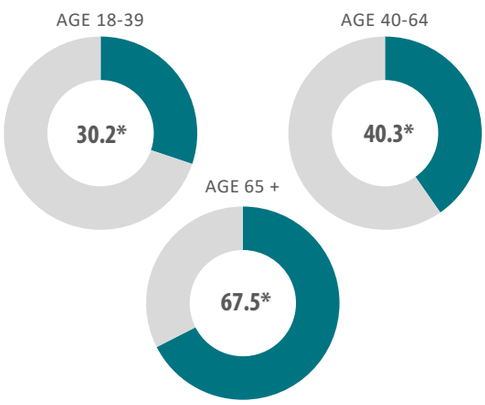
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold



Flu Vaccination Rates by Age



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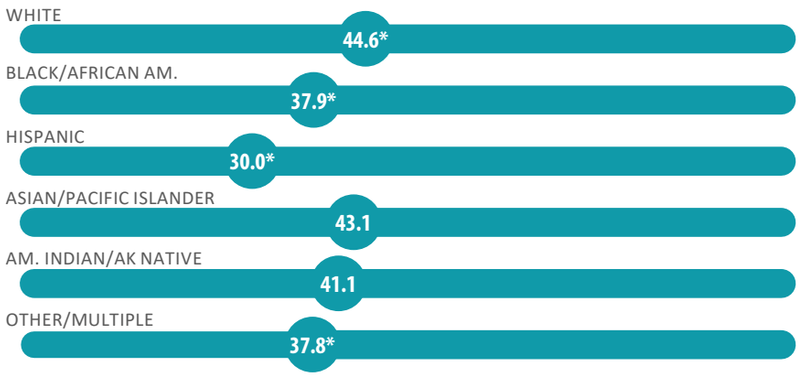

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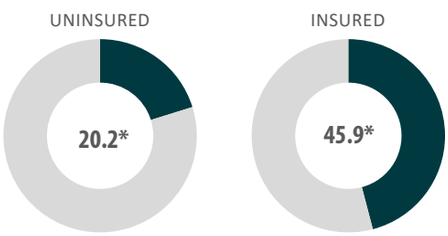
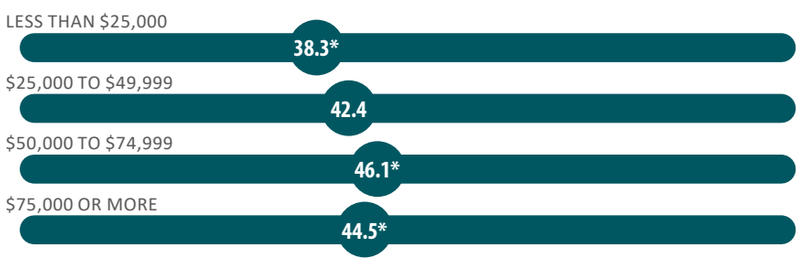


Flu Vaccination Rates by Household Income



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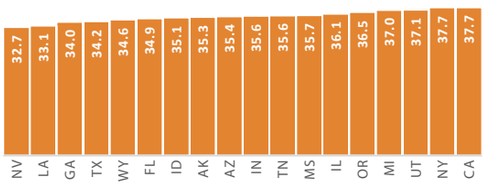

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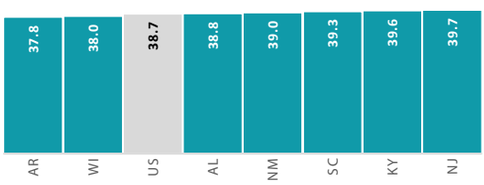

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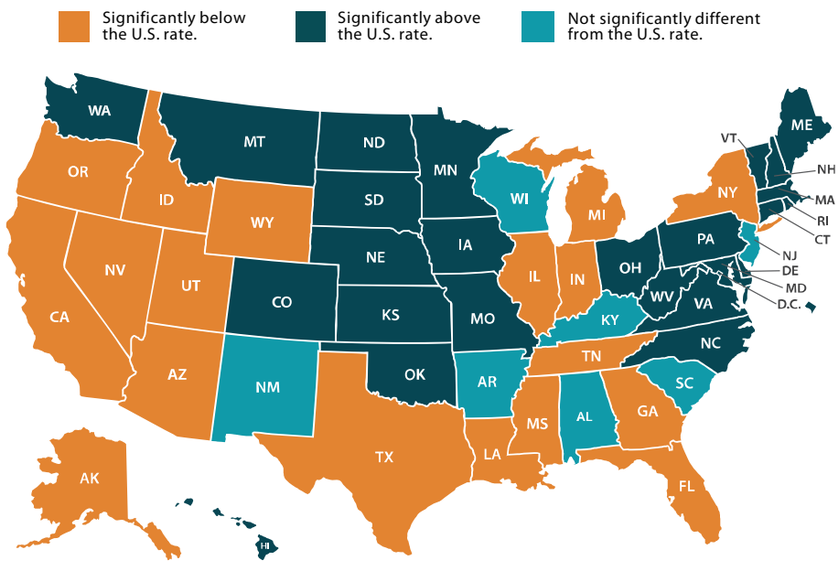

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Oklahoma

	Oklahoma			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	42.1		3.4*	38.7	
Age					
18-39	30.2	-11.9*	1.6	28.5	-10.2*
40-64	40.3	-1.8*	3.2*	37.2	-1.5*
65+	67.5	25.4*	8.1*	59.4	20.7*
Race/Ethnicity					
White	44.6	2.5*	2.9*	41.7	3.0*
Black/African American	37.9	-4.2*	5.1*	32.8	-5.9*
Hispanic	30.0	-12.1*	-0.9	30.9	-7.7*
Asian/Pacific Islander	43.1	0.9	1.7	41.4	2.7*
American Indian/Alaska Native	41.1	-1.0	7.2*	33.9	-4.8*
Other/multiple	37.8	-4.3*	2.9	34.9	-3.8*
Sex					
Male	37.4	-4.7*	2.0*	35.4	-3.3*
Female	46.6	4.5*	4.8*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	37.8	-4.3*	2.4*	35.4	-3.3*
1+ chronic conditions	53.4	11.3*	4.3*	49.1	10.5*
Health Insurance Coverage					
Uninsured	20.2	-21.9*	2.6*	17.6	-21.1*
Insured	45.9	3.8*	4.3*	41.6	2.9*
Access to Care					
No personal doctor	21.2	-20.9*	1.1	20.1	-18.6*
Has personal doctor	48.7	6.6*	4.6*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	44.0		3.9*	40.2	
Less than high school	35.5	-8.5*	1.5	34.0	-6.1*
High school graduate	41.1	-3.0*	5.5*	35.6	-4.6*
Some college or associate's degree	42.9	-1.1	4.1*	38.8	-1.4*
Bachelor's degree or higher	53.4	10.5*	5.4*	47.9	9.2*
Household Income					
Less than $25,000	38.3	-3.8*	3.5*	34.8	-3.9*
$25,000 to $49,999	42.4	0.3	5.9*	36.5	-2.2*
$50,000 to $74,999	46.1	4.0*	7.5*	38.6	-0.1
$75,000 or more	44.5	2.4*	1.7	42.8	4.1*

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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.

Oregon

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.

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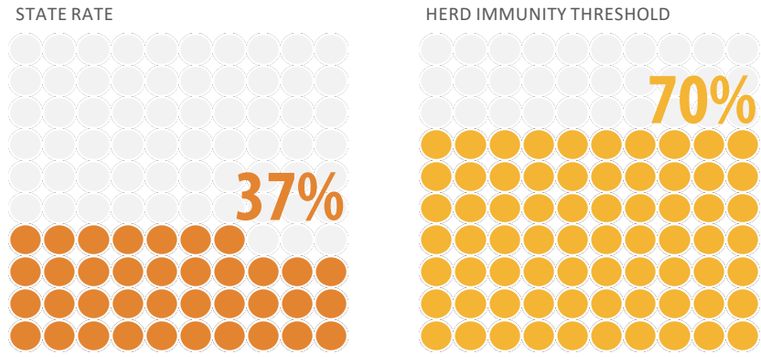
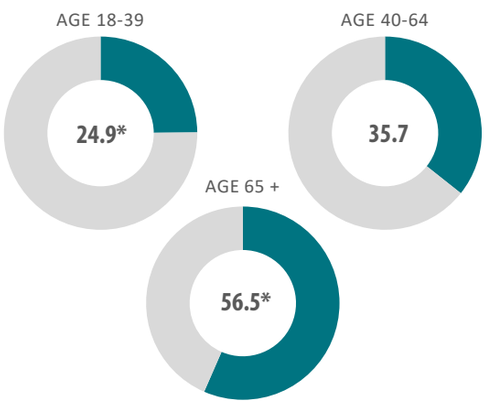
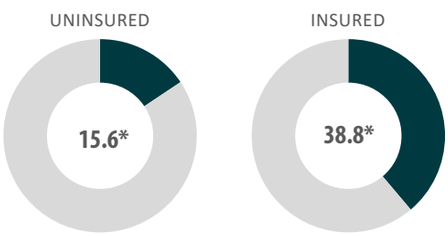


Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity

Flu Vaccination Rates by Insurance Status



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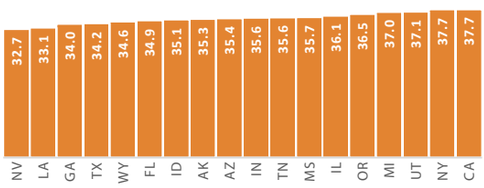
State vs. National Adult Flu Vaccination Rates

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



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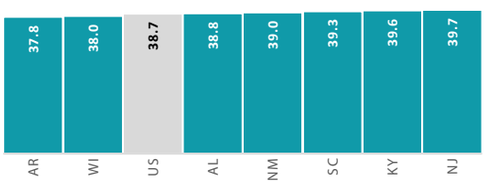

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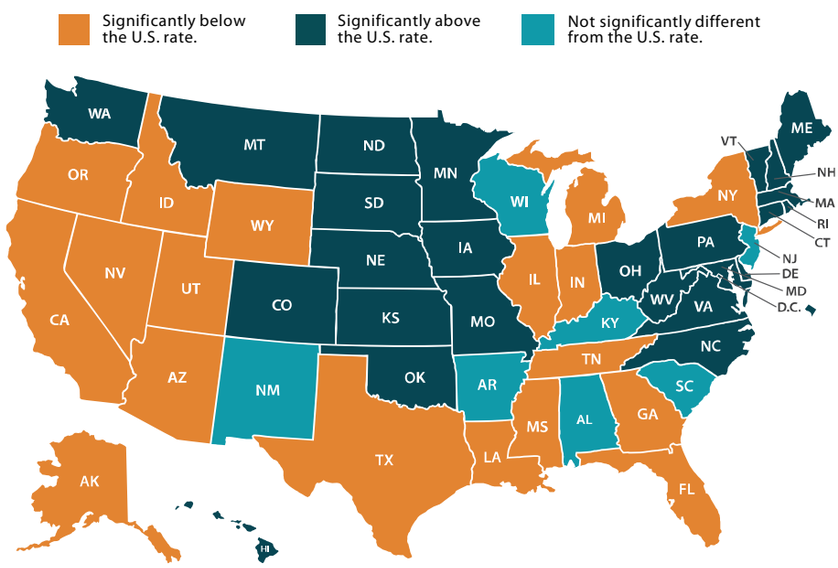

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Oregon

	Oregon			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	36.5		-2.2*	38.7	
Age					
18-39	24.9	-11.6*	-3.6*	28.5	-10.2*
40-64	35.7	-0.8	-1.5*	37.2	-1.5*
65+	56.5	20.0*	-2.8*	59.4	20.7*
Race/Ethnicity					
White	38.1	1.6*	-3.6*	41.7	3.0*
Black/African American	37.5	1.0	4.8	32.8	-5.9*
Hispanic	29.4	-7.1*	-1.5	30.9	-7.7*
Asian/Pacific Islander	35.4	-1.1	-6.0	41.4	2.7*
American Indian/Alaska Native	27.4	-9.2*	-6.5	33.9	-4.8*
Other/multiple	30.8	-5.7*	-4.0	34.9	-3.8*
Sex					
Male	33.5	-3.0*	-1.9*	35.4	-3.3*
Female	39.4	2.9*	-2.4*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	33.1	-3.4*	-2.3*	35.4	-3.3*
1+ chronic conditions	46.7	10.2*	-2.4*	49.1	10.5*
Health Insurance Coverage					
Uninsured	15.6	-20.9*	-2.0	17.6	-21.1*
Insured	38.8	2.3*	-2.8*	41.6	2.9*
Access to Care					
No personal doctor	16.9	-19.6*	-3.2*	20.1	-18.6*
Has personal doctor	42.7	6.1*	-1.4*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	38.3		-1.9*	40.2	
Less than high school	31.1	-7.2*	-3.0	34.0	-6.1*
High school graduate	30.5	-7.8*	-5.1*	35.6	-4.6*
Some college or associate's degree	37.2	-1.1	-1.5	38.8	-1.4*
Bachelor's degree or higher	47.0	9.8*	-0.9	47.9	9.2*
Household Income					
Less than $25,000	32.6	-3.9*	-2.2*	34.8	-3.9*
$25,000 to $49,999	33.8	-2.7*	-2.7*	36.5	-2.2*
$50,000 to $74,999	36.7	0.2	-1.9	38.6	-0.1
$75,000 or more	42.3	5.8*	-0.5	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.
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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.

Pennsylvania

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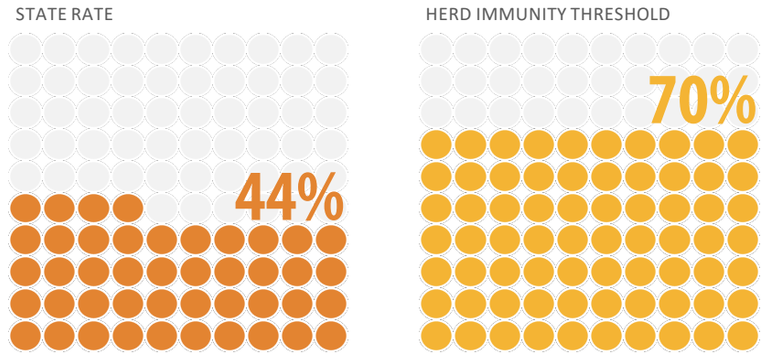
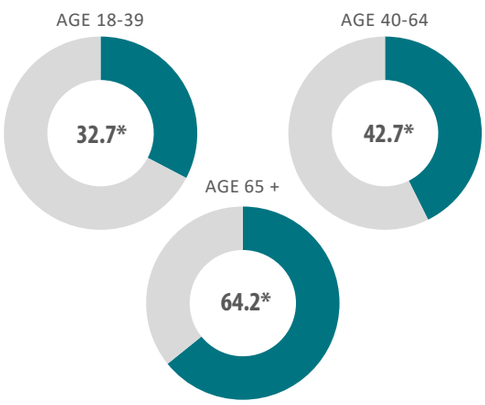
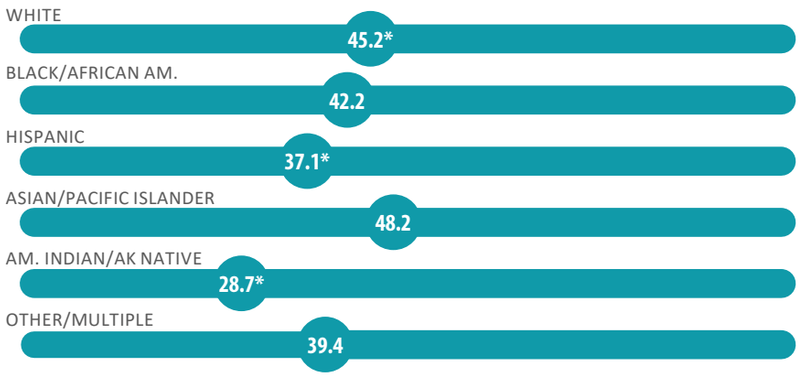
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold



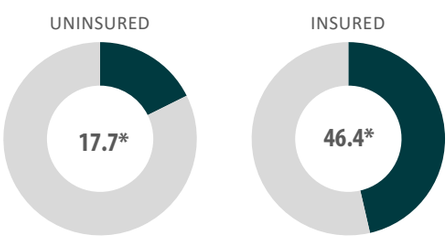
Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity



Flu Vaccination Rates by Insurance Status



Flu Vaccination Rates by Household Income

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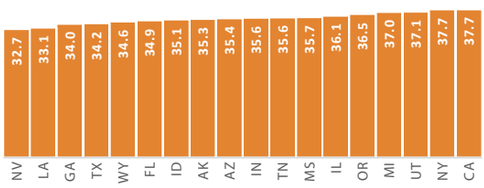
State vs. National Adult Flu Vaccination Rates

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



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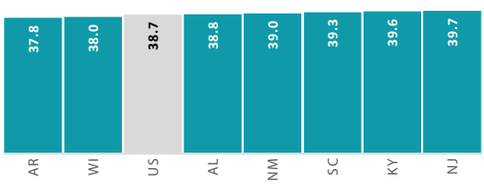

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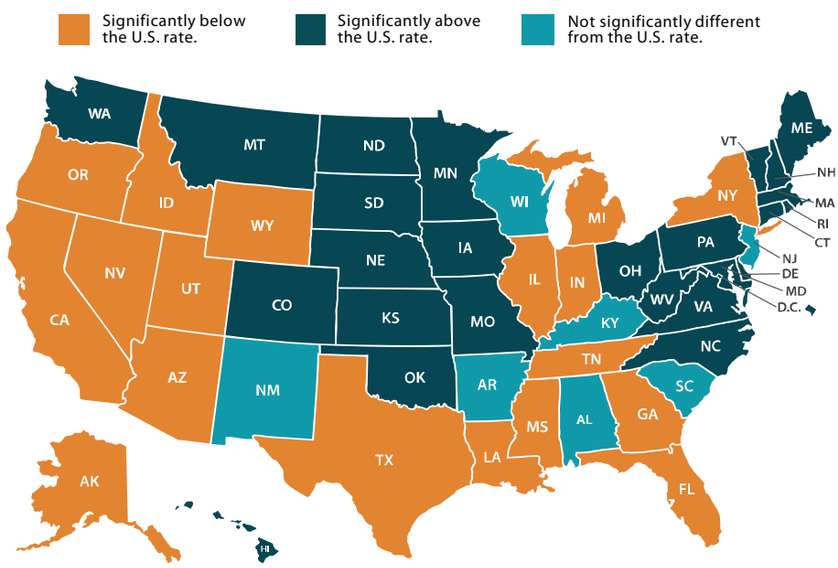

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Pennsylvania

	Pennsylvania			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	44.2		5.6*	38.7	
Age					
18-39	32.7	-11.6*	4.1*	28.5	-10.2*
40-64	42.7	-1.6*	5.5*	37.2	-1.5*
65+	64.2	19.9*	4.8*	59.4	20.7*
Race/Ethnicity					
White	45.2	1.0*	3.5*	41.7	3.0*
Black/African American	42.2	-2.0	9.5*	32.8	-5.9*
Hispanic	37.1	-7.2*	6.2*	30.9	-7.7*
Asian/Pacific Islander	48.2	3.9	6.8*	41.4	2.7*
American Indian/Alaska Native	28.7	-15.6*	-5.2	33.9	-4.8*
Other/multiple	39.4	-4.8	4.6	34.9	-3.8*
Sex					
Male	39.8	-4.5*	4.4*	35.4	-3.3*
Female	48.4	4.2*	6.6*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	40.0	-4.2*	4.6*	35.4	-3.3*
1+ chronic conditions	56.5	12.3*	7.4*	49.1	10.5*
Health Insurance Coverage					
Uninsured	17.7	-26.6*	0.1	17.6	-21.1*
Insured	46.4	2.2*	4.8*	41.6	2.9*
Access to Care					
No personal doctor	23.3	-20.9*	3.2*	20.1	-18.6*
Has personal doctor	48.0	3.8*	4.0*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	45.5		5.4*	40.2	
Less than high school	38.6	-6.9*	4.6*	34.0	-6.1*
High school graduate	41.8	-3.7*	6.3*	35.6	-4.6*
Some college or associate's degree	43.9	-1.7	5.1*	38.8	-1.4*
Bachelor's degree or higher	53.5	9.6*	5.5*	47.9	9.2*
Household Income					
Less than $25,000	42.9	-1.3	8.2*	34.8	-3.9*
$25,000 to $49,999	42.7	-1.6	6.2*	36.5	-2.2*
$50,000 to $74,999	42.8	-1.5	4.2*	38.6	-0.1
$75,000 or more	47.0	2.8*	4.2*	42.8	4.1*

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Rhode Island

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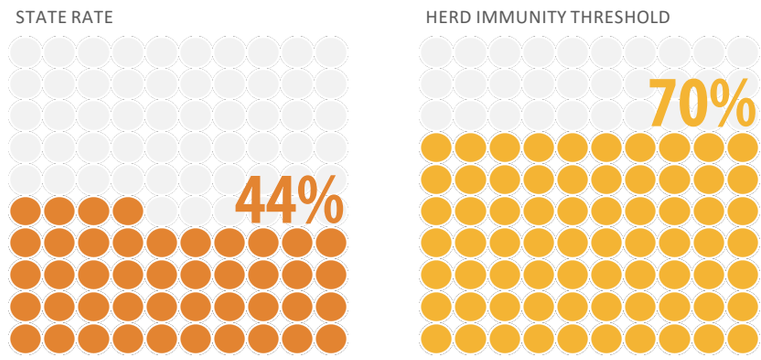

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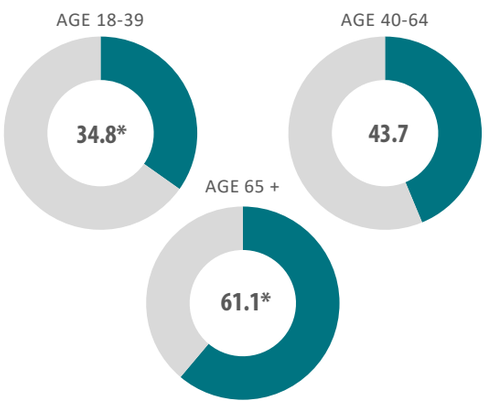

Flu Vaccination Rates by Race/Ethnicity

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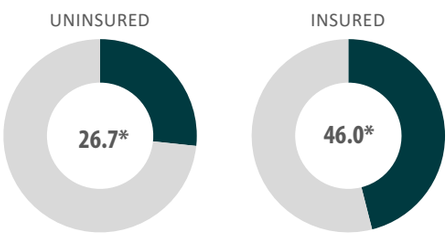

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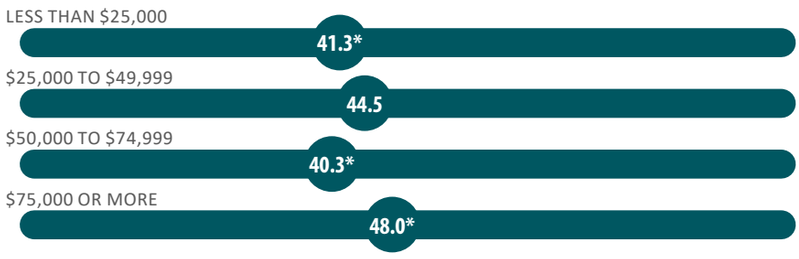

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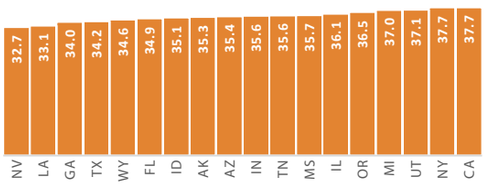

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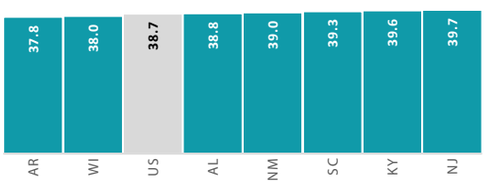

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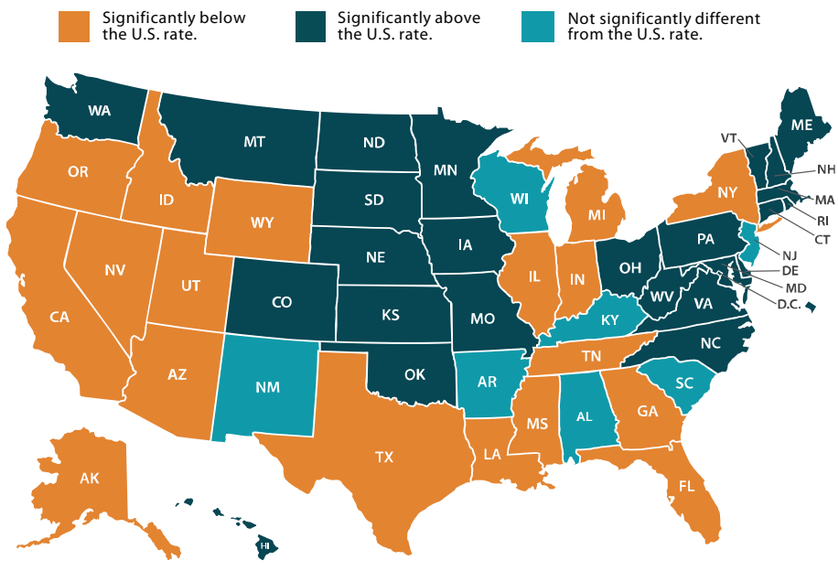

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Rhode Island

	Rhode Island			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	44.4		5.7*	38.7	
Age					
18-39	34.8	-9.6*	6.3*	28.5	-10.2*
40-64	43.7	-0.6	6.6*	37.2	-1.5*
65+	61.1	16.8*	1.8*	59.4	20.7*
Race/Ethnicity					
White	46.1	1.8*	4.4*	41.7	3.0*
Black/African American	39.7	-4.7	6.9*	32.8	-5.9*
Hispanic	38.5	-5.8*	7.6*	30.9	-7.7*
Asian/Pacific Islander	39.0	-5.4	-2.4	41.4	2.7*
American Indian/Alaska Native	43.2	-1.1	9.4	33.9	-4.8*
Other/multiple	40.4	-4.0	5.5	34.9	-3.8*
Sex					
Male	40.0	-4.4*	4.6*	35.4	-3.3*
Female	48.6	4.2*	6.8*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	42.1	-2.3*	6.7*	35.4	-3.3*
1+ chronic conditions	51.5	7.2*	2.4*	49.1	10.5*
Health Insurance Coverage					
Uninsured	26.7	-17.7*	9.1*	17.6	-21.1*
Insured	46.0	1.7*	4.4*	41.6	2.9*
Access to Care					
No personal doctor	24.4	-19.9*	4.3*	20.1	-18.6*
Has personal doctor	47.6	3.2*	3.5*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	45.6		5.4*	40.2	
Less than high school	40.1	-5.4*	6.1*	34.0	-6.1*
High school graduate	40.9	-4.7*	5.3*	35.6	-4.6*
Some college or associate's degree	43.2	-2.3*	4.5*	38.8	-1.4*
Bachelor's degree or higher	53.6	10.3*	5.6*	47.9	9.2*
Household Income					
Less than $25,000	41.3	-3.1*	6.5*	34.8	-3.9*
$25,000 to $49,999	44.5	0.1	8.0*	36.5	-2.2*
$50,000 to $74,999	40.3	-4.1*	1.7	38.6	-0.1
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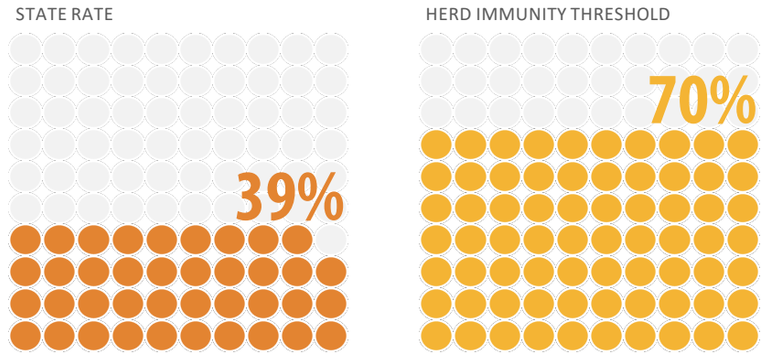
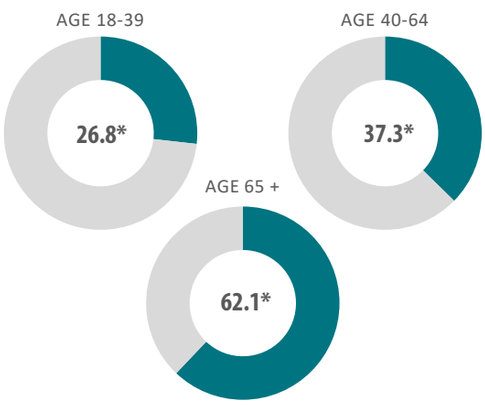
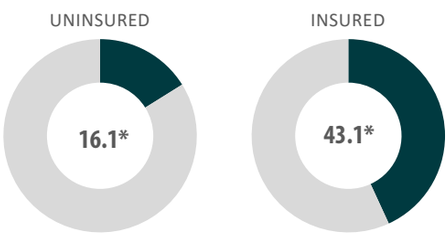


Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity

Flu Vaccination Rates by Insurance Status

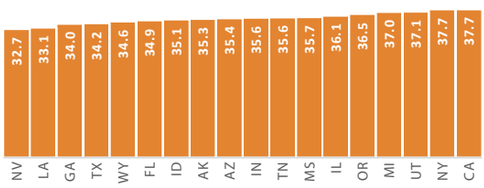


Flu Vaccination Rates by Household Income

* 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.



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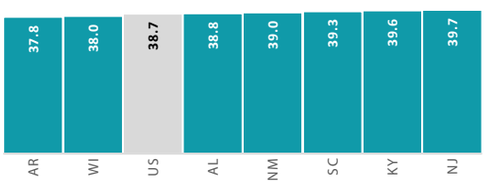

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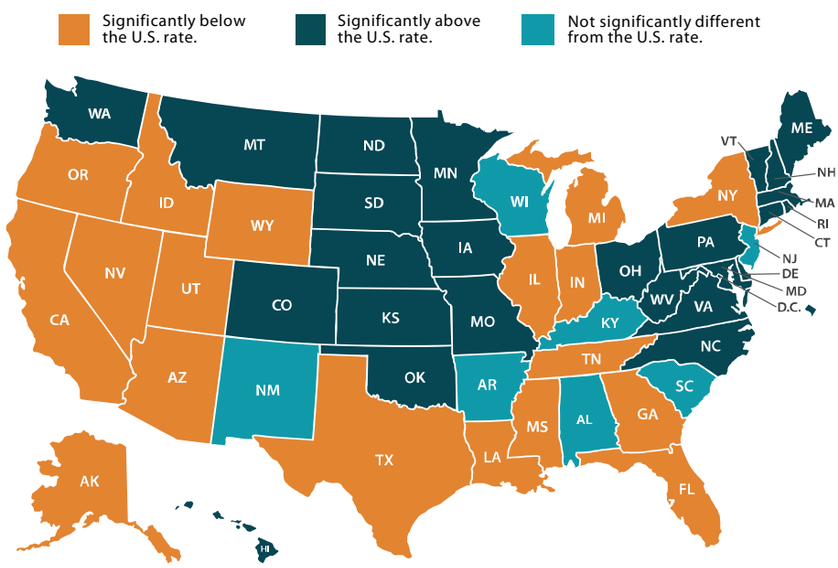

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

South Carolina

	South Carolina			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	39.3		0.7	38.7	
Age					
18-39	26.8	-12.6*	-1.8*	28.5	-10.2*
40-64	37.3	-2.0*	0.2	37.2	-1.5*
65+	62.1	22.7*	2.7*	59.4	20.7*
Race/Ethnicity					
White	42.6	3.3*	0.9	41.7	3.0*
Black/African American	33.7	-5.6*	0.9	32.8	-5.9*
Hispanic	27.5	-11.8*	-3.4	30.9	-7.7*
Asian/Pacific Islander	38.1	-1.3	-3.3	41.4	2.7*
American Indian/Alaska Native	31.4	-7.9	-2.5	33.9	-4.8*
Other/multiple	30.0	-9.4*	-4.9*	34.9	-3.8*
Sex					
Male	36.4	-2.9*	1.0	35.4	-3.3*
Female	42.2	2.8*	0.3	41.8	3.1*
Chronic Condition Status					
No chronic conditions	35.6	-3.7*	0.2	35.4	-3.3*
1+ chronic conditions	49.9	10.6*	0.8	49.1	10.5*
Health Insurance Coverage					
Uninsured	16.1	-23.2*	-1.5	17.6	-21.1*
Insured	43.1	3.8*	1.5*	41.6	2.9*
Access to Care					
No personal doctor	18.7	-20.7*	-1.5	20.1	-18.6*
Has personal doctor	45.7	6.4*	1.6*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	41.6		1.4*	40.2	
Less than high school	34.9	-6.8*	0.8	34.0	-6.1*
High school graduate	38.2	-3.4*	2.6*	35.6	-4.6*
Some college or associate's degree	40.8	-0.8	2.0*	38.8	-1.4*
Bachelor's degree or higher	49.5	8.7*	1.6*	47.9	9.2*
Household Income					
Less than $25,000	35.6	-3.8*	0.8	34.8	-3.9*
$25,000 to $49,999	36.6	-2.7*	0.1	36.5	-2.2*
$50,000 to $74,999	41.3	1.9	2.7*	38.6	-0.1
$75,000 or more	44.5	5.2*	1.7*	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

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

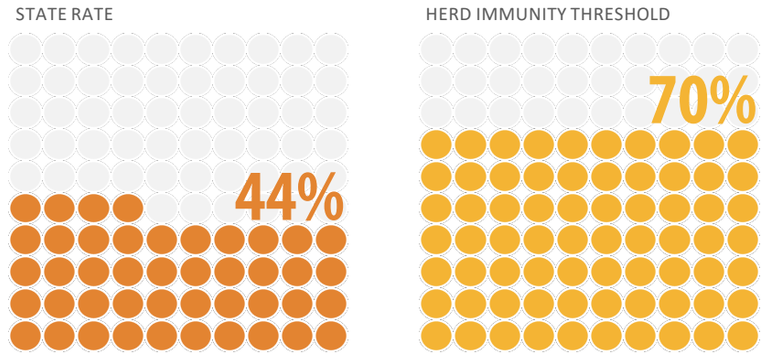
SHADAC's analysis of 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) Data.

South Dakota

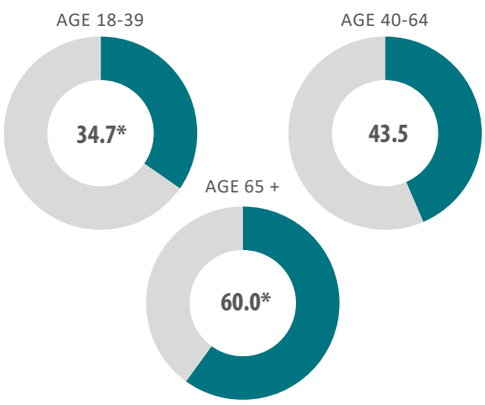
Though there is no consensus on one singular figure needed to achieve what is commonly known as "herd immunity" (i.e., sufficient levels of COVID vaccinations in order to achieve protective population immunity) scientists and researchers have generally agreed on a range of 70-90% of the population being 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

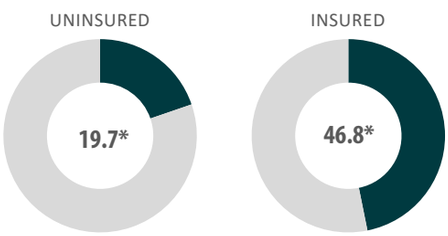


Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity

Flu Vaccination Rates by Insurance Status



Flu Vaccination Rates by Household Income

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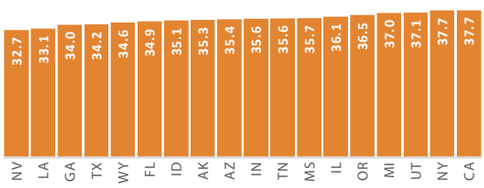
State vs. National Adult Flu Vaccination Rates

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



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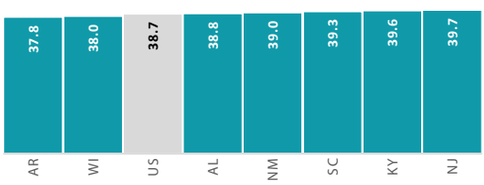

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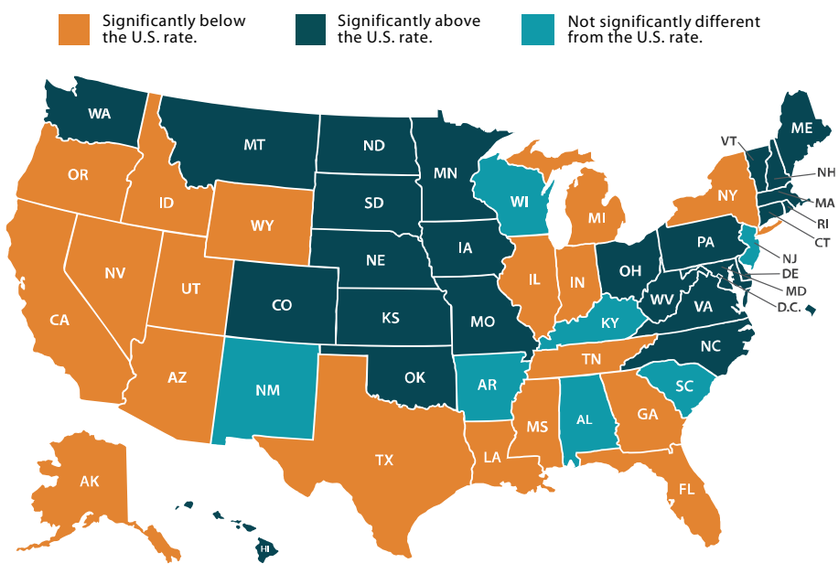

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

South Dakota

	South Dakota			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	43.8		5.2*	38.7	
Age					
18-39	34.7	-9.1*	6.2*	28.5	-10.2*
40-64	43.5	-0.3	6.4*	37.2	-1.5*
65+	60.0	16.2*	0.6	59.4	20.7*
Race/Ethnicity					
White	45.2	1.4*	3.5*	41.7	3.0*
Black/African American	31.5	-12.3	-1.3	32.8	-5.9*
Hispanic	32.1	-11.8*	1.1	30.9	-7.7*
Asian/Pacific Islander	31.3	-12.5	-10.1	41.4	2.7*
American Indian/Alaska Native	38.4	-5.4*	4.5	33.9	-4.8*
Other/multiple	37.9	-5.9	3.1	34.9	-3.8*
Sex					
Male	37.8	-6.0*	2.5*	35.4	-3.3*
Female	49.9	6.0*	8.1*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	41.6	-2.2*	6.2*	35.4	-3.3*
1+ chronic conditions	51.6	7.7*	2.4	49.1	10.5*
Health Insurance Coverage					
Uninsured	19.7	-24.1*	2.2	17.6	-21.1*
Insured	46.8	3.0*	5.2*	41.6	2.9*
Access to Care					
No personal doctor	26.1	-17.8*	6.0*	20.1	-18.6*
Has personal doctor	49.6	5.7*	5.5*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	45.6		5.4*	40.2	
Less than high school	35.8	-9.7*	1.8	34.0	-6.1*
High school graduate	39.4	-6.2*	3.8*	35.6	-4.6*
Some college or associate's degree	45.9	0.3	7.1*	38.8	-1.4*
Bachelor's degree or higher	54.6	8.7*	6.6*	47.9	9.2*
Household Income					
Less than $25,000	37.0	-6.9*	2.2*	34.8	-3.9*
$25,000 to $49,999	41.0	-2.8*	4.5*	36.5	-2.2*
$50,000 to $74,999	45.5	1.7	6.9*	38.6	-0.1
$75,000 or more	48.8	5.0*	6.0*	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

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.

Tennessee

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.

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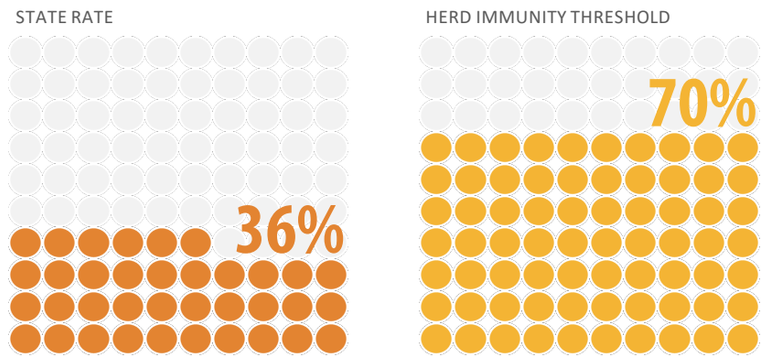
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold



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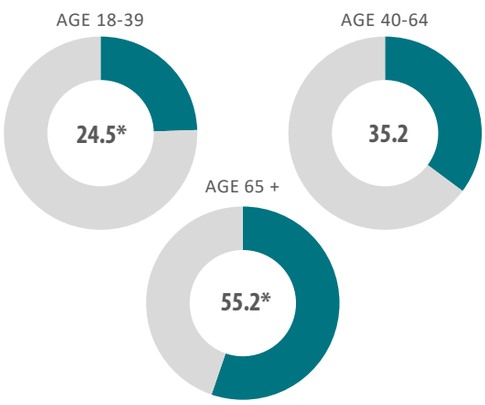
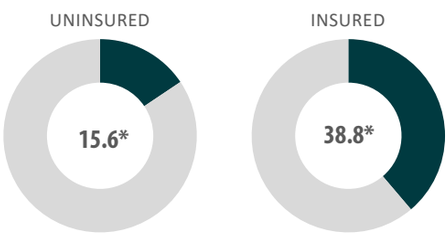


Flu Vaccination Rates by Race/Ethnicity

Flu Vaccination Rates by Insurance Status

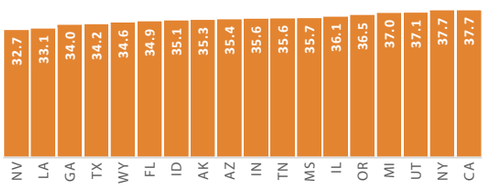


Flu Vaccination Rates by Household Income

* 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.



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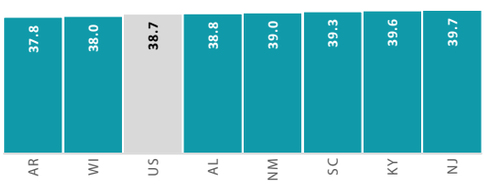

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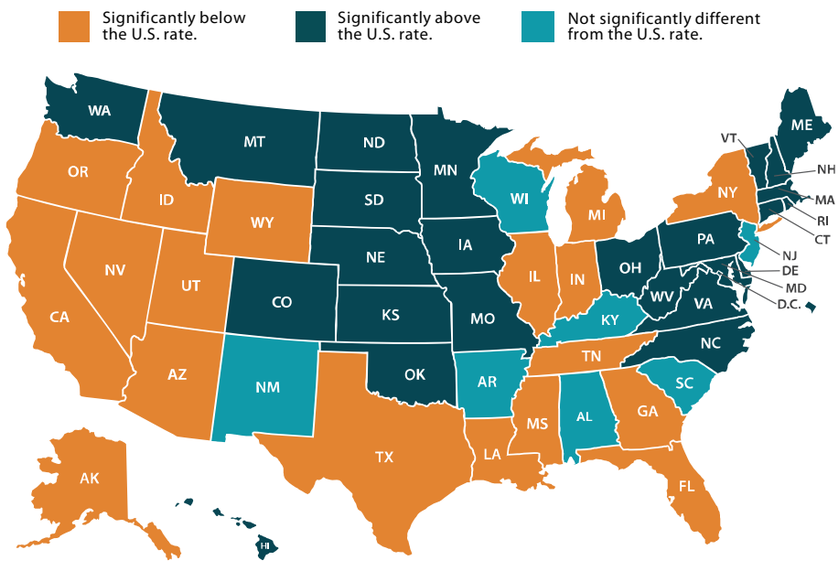

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Tennessee

	Tennessee			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	35.6		-3.0*	38.7	
Age					
18-39	24.5	-11.2*	-4.0*	28.5	-10.2*
40-64	35.2	-0.4	-2.0*	37.2	-1.5*
65+	55.2	19.6*	-4.1*	59.4	20.7*
Race/Ethnicity					
White	37.8	2.2*	-3.9*	41.7	3.0*
Black/African American	28.8	-6.9*	-4.0*	32.8	-5.9*
Hispanic	25.0	-10.6*	-5.9	30.9	-7.7*
Asian/Pacific Islander	32.2	-3.4	-9.1	41.4	2.7*
American Indian/Alaska Native	26.7	-8.9	-7.1	33.9	-4.8*
Other/multiple	31.7	-3.9	-3.1	34.9	-3.8*
Sex					
Male	32.1	-3.6*	-3.3*	35.4	-3.3*
Female	39.0	3.4*	-2.8*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	32.7	-2.9*	-2.7*	35.4	-3.3*
1+ chronic conditions	43.5	7.8*	-5.7*	49.1	10.5*
Health Insurance Coverage					
Uninsured	15.6	-20.0*	-2.0	17.6	-21.1*
Insured	38.8	3.2*	-2.8*	41.6	2.9*
Access to Care					
No personal doctor	19.3	-16.3*	-0.8	20.1	-18.6*
Has personal doctor	40.8	5.2*	-3.3*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	37.0		-3.2*	40.2	
Less than high school	35.7	-1.3	1.7	34.0	-6.1*
High school graduate	33.6	-3.3*	-2.0*	35.6	-4.6*
Some college or associate's degree	34.0	-2.9*	-4.8*	38.8	-1.4*
Bachelor's degree or higher	45.0	11.0*	-2.9*	47.9	9.2*
Household Income					
Less than $25,000	34.5	-1.1	-0.2	34.8	-3.9*
$25,000 to $49,999	32.8	-2.8*	-3.7*	36.5	-2.2*
$50,000 to $74,999	35.4	-0.2	-3.2*	38.6	-0.1
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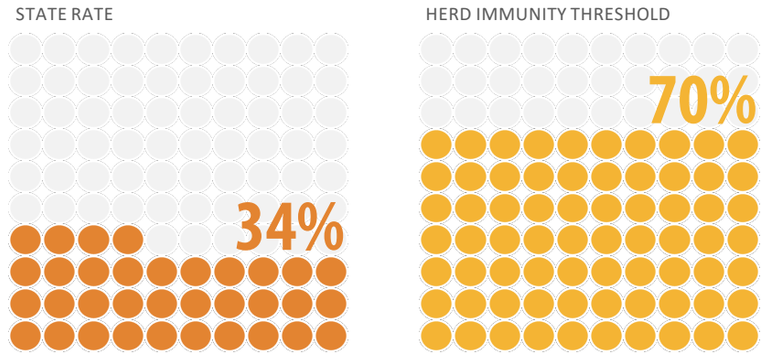
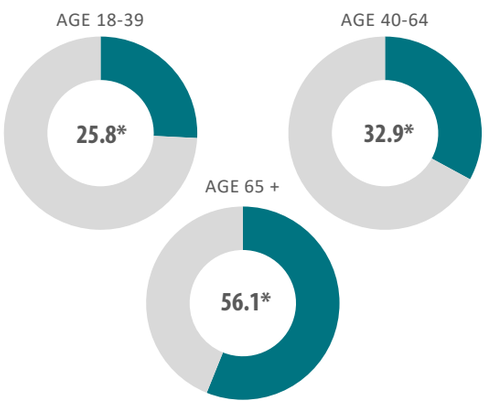


Flu Vaccination Rates by Age



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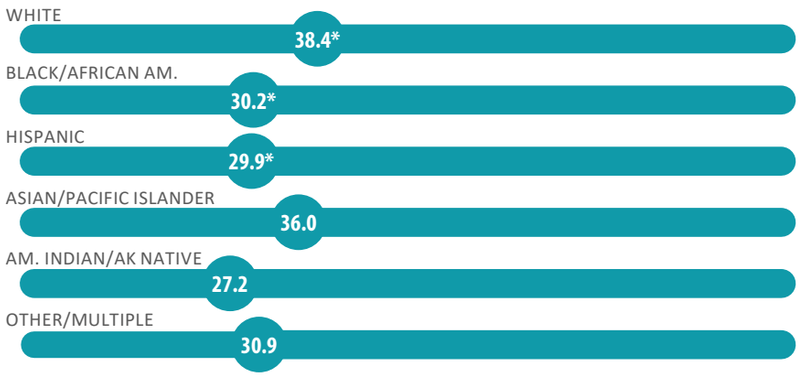
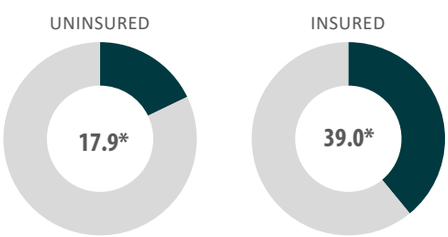


Flu Vaccination Rates by Insurance Status



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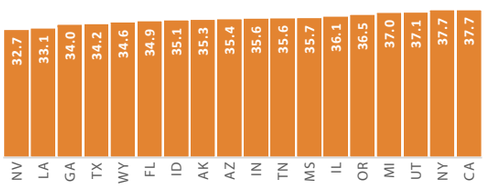

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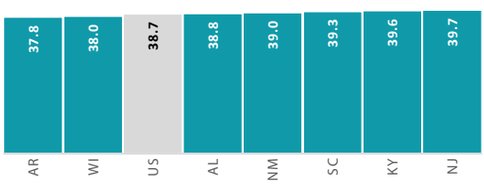

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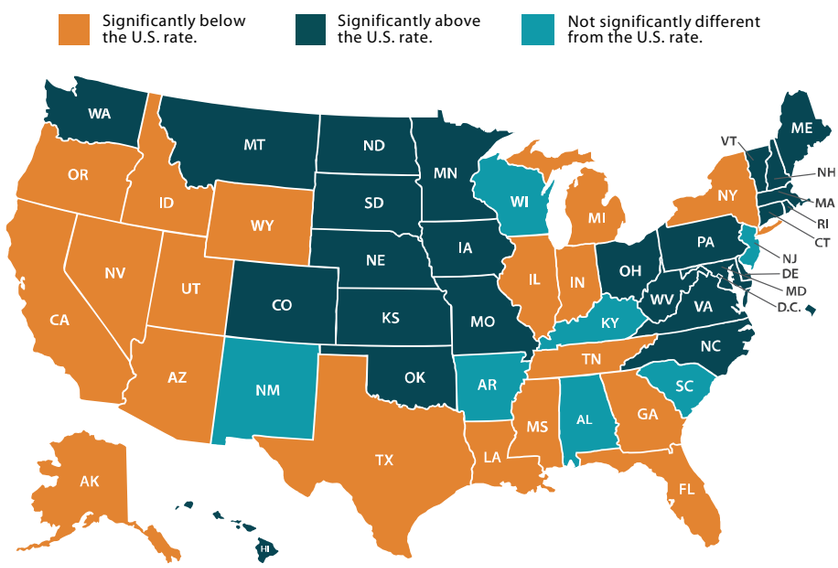

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Texas	Texas			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	34.2		-4.5*	38.7	
Age					
18-39	25.8	-8.4*	-2.7*	28.5	-10.2*
40-64	32.9	-1.2*	-4.3*	37.2	-1.5*
65+	56.1	21.9*	-3.3*	59.4	20.7*
Race/Ethnicity					
White	38.4	4.3*	-3.3*	41.7	3.0*
Black/African American	30.2	-4.0*	-2.6	32.8	-5.9*
Hispanic	29.9	-4.2*	-1.0	30.9	-7.7*
Asian/Pacific Islander	36.0	1.8	-5.4	41.4	2.7*
American Indian/Alaska Native	27.2	-7.0	-6.7	33.9	-4.8*
Other/multiple	30.9	-3.3	-4.0	34.9	-3.8*
Sex					
Male	31.5	-2.7*	-3.9*	35.4	-3.3*
Female	36.7	2.5*	-5.1*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	31.0	-3.1*	-4.4*	35.4	-3.3*
1+ chronic conditions	44.7	10.5*	-4.4*	49.1	10.5*
Health Insurance Coverage					
Uninsured	17.9	-16.3*	0.3	17.6	-21.1*
Insured	39.0	4.9*	-2.6*	41.6	2.9*
Access to Care					
No personal doctor	19.1	-15.1*	-1.0	20.1	-18.6*
Has personal doctor	41.3	7.1*	-2.8*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	35.3		-4.9*	40.2	
Less than high school	30.7	-4.6*	-3.3*	34.0	-6.1*
High school graduate	29.0	-6.2*	-6.5*	35.6	-4.6*
Some college or associate's degree	35.4	0.1	-3.4*	38.8	-1.4*
Bachelor's degree or higher	43.0	7.7*	-4.9*	47.9	9.2*
Household Income					
Less than $25,000	30.9	-3.3*	-3.9*	34.8	-3.9*
$25,000 to $49,999	30.9	-3.2*	-5.6*	36.5	-2.2*
$50,000 to $74,999	35.0	0.9	-3.5*	38.6	-0.1
$75,000 or more	38.0	3.8*	-4.8*	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

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.

Utah

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.

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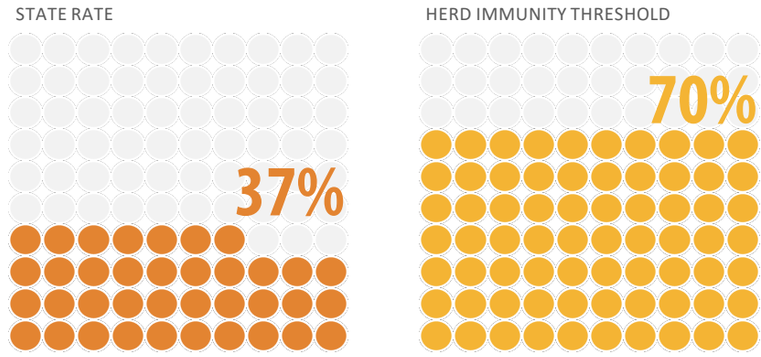
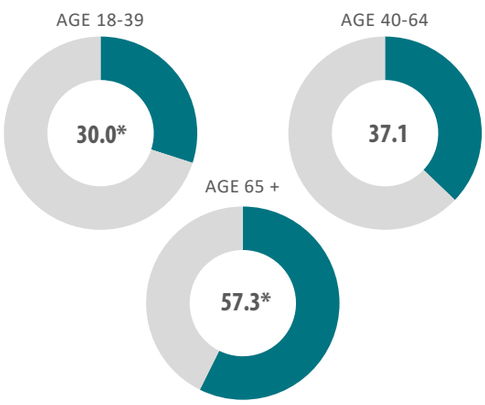
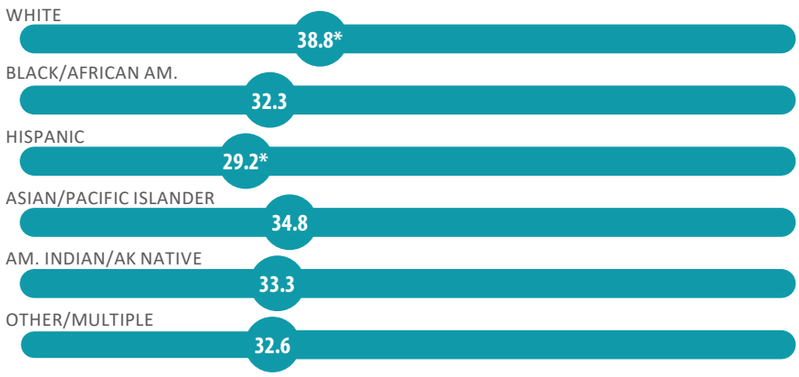
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold



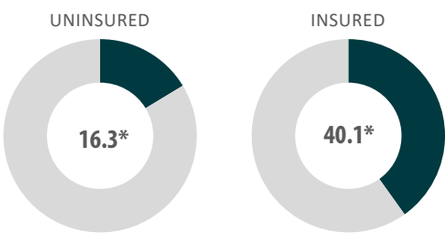
Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity



Flu Vaccination Rates by Insurance Status

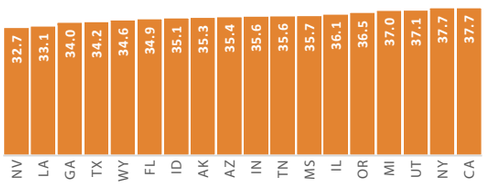


Flu Vaccination Rates by Household Income

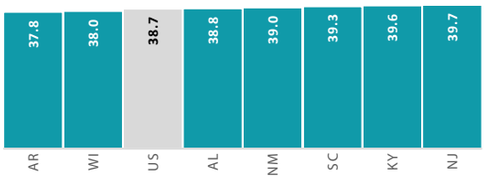
* Significantly different from the statewide rate (adults age 18+) at 95% confidence level.

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.



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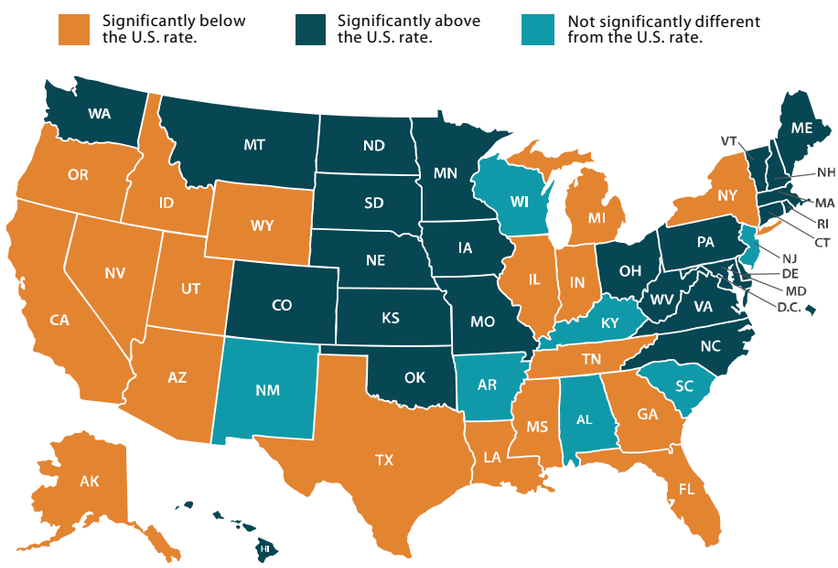

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Utah	Utah			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	37.1		-1.6*	38.7	
Age					
18-39	30.0	-7.1*	1.5*	28.5	-10.2*
40-64	37.1	0.1	0.0	37.2	-1.5*
65+	57.3	20.3*	-2.1*	59.4	20.7*
Race/Ethnicity					
White	38.8	1.7*	-2.9*	41.7	3.0*
Black/African American	32.3	-4.8	-0.5	32.8	-5.9*
Hispanic	29.2	-7.9*	-1.7	30.9	-7.7*
Asian/Pacific Islander	34.8	-2.2	-6.5*	41.4	2.7*
American Indian/Alaska Native	33.3	-3.8	-0.6	33.9	-4.8*
Other/multiple	32.6	-4.4	-2.2	34.9	-3.8*
Sex					
Male	34.1	-3.0*	-1.3*	35.4	-3.3*
Female	40.1	3.0*	-1.8*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	34.3	-2.8*	-1.1*	35.4	-3.3*
1+ chronic conditions	48.2	11.1*	-0.9	49.1	10.5*
Health Insurance Coverage					
Uninsured	16.3	-20.7*	-1.3	17.6	-21.1*
Insured	40.1	3.0*	-1.5*	41.6	2.9*
Access to Care					
No personal doctor	20.3	-16.8*	0.2	20.1	-18.6*
Has personal doctor	43.5	6.5*	-0.6	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	38.9		-1.3*	40.2	
Less than high school	29.0	-9.9*	-5.0*	34.0	-6.1*
High school graduate	31.5	-7.4*	-4.1*	35.6	-4.6*
Some college or associate's degree	38.3	-0.6	-0.4	38.8	-1.4*
Bachelor's degree or higher	47.1	8.8*	-0.8	47.9	9.2*
Household Income					
Less than $25,000	32.3	-4.7*	-2.4*	34.8	-3.9*
$25,000 to $49,999	34.7	-2.4*	-1.8*	36.5	-2.2*
$50,000 to $74,999	36.5	-0.5	-2.1*	38.6	-0.1
$75,000 or more	42.0	4.9*	-0.9	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.
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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

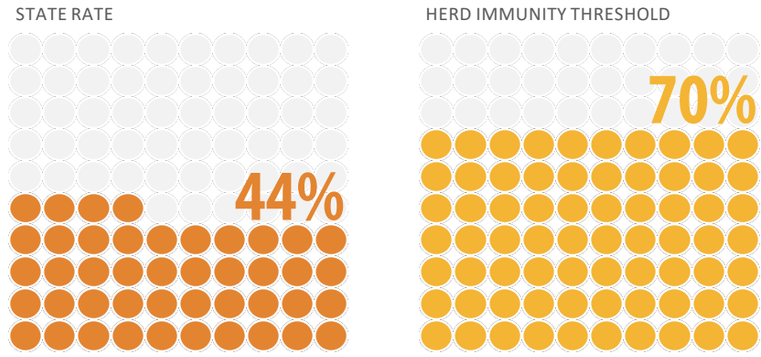
SHADAC's analysis of 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) Data.

Virginia

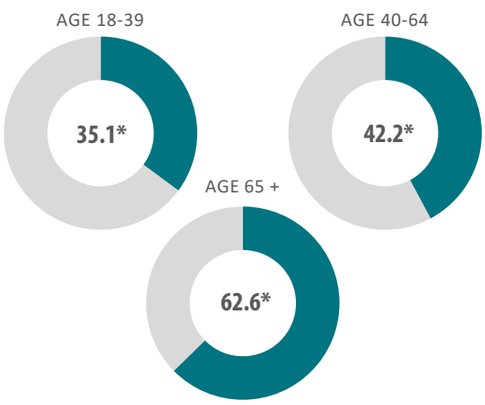
Though there is no consensus on one singular figure needed to achieve what is commonly known as "herd immunity" (i.e., sufficient levels of COVID vaccinations in order to achieve protective population immunity) scientists and researchers have generally agreed on a range of 70-90% of the population being 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.

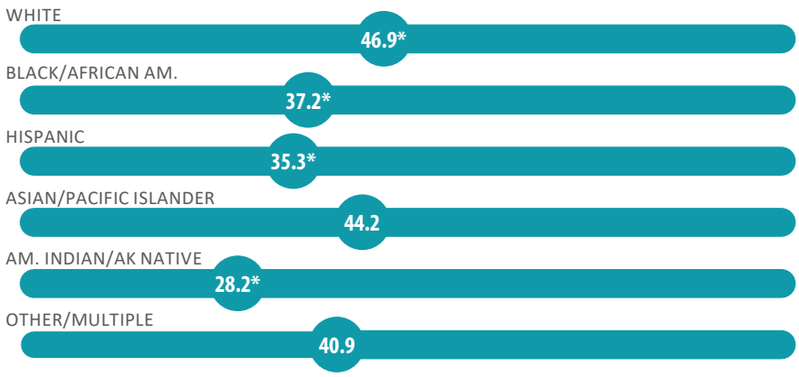
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold



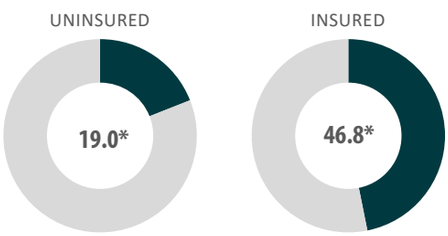
Flu Vaccination Rates by Age



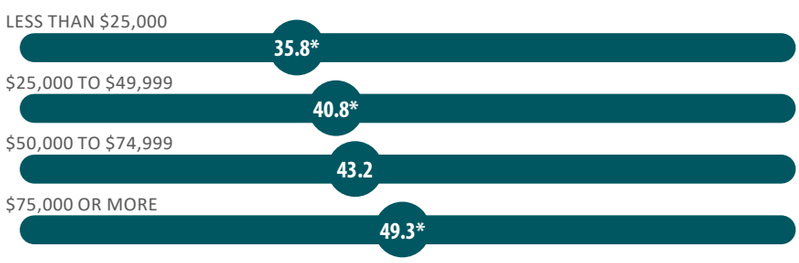
Flu Vaccination Rates by Race/Ethnicity



Flu Vaccination Rates by Insurance Status



Flu Vaccination Rates by Household Income



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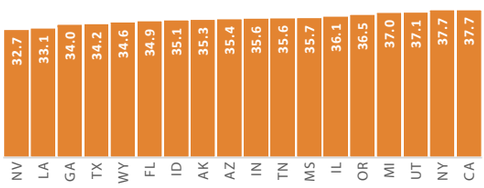
State vs. National Adult Flu Vaccination Rates

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



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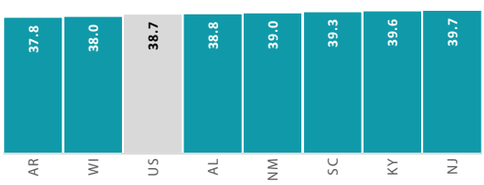

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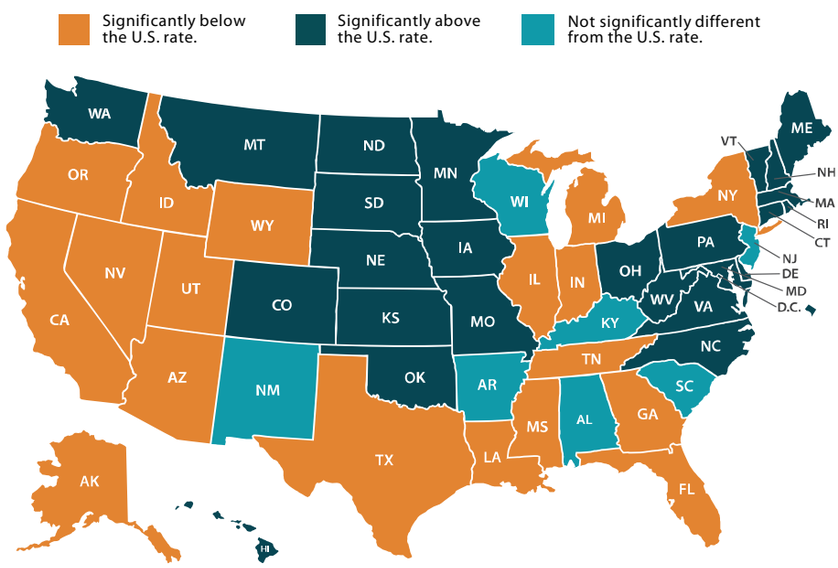

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Virginia

	Virginia			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	43.7		5.0*	38.7	
Age					
18-39	35.1	-8.5*	6.6*	28.5	-10.2*
40-64	42.2	-1.5*	5.0*	37.2	-1.5*
65+	62.6	19.0*	3.3*	59.4	20.7*
Race/Ethnicity					
White	46.9	3.3*	5.2*	41.7	3.0*
Black/African American	37.2	-6.4*	4.4*	32.8	-5.9*
Hispanic	35.3	-8.4*	4.4*	30.9	-7.7*
Asian/Pacific Islander	44.2	0.5	2.8	41.4	2.7*
American Indian/Alaska Native	28.2	-15.5*	-5.7	33.9	-4.8*
Other/multiple	40.9	-2.8	6.1*	34.9	-3.8*
Sex					
Male	40.2	-3.5*	4.8*	35.4	-3.3*
Female	47.1	3.4*	5.2*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	41.1	-2.6*	5.7*	35.4	-3.3*
1+ chronic conditions	52.5	8.8*	3.4*	49.1	10.5*
Health Insurance Coverage					
Uninsured	19.0	-24.7*	1.4	17.6	-21.1*
Insured	46.8	3.2*	5.2*	41.6	2.9*
Access to Care					
No personal doctor	25.7	-18.0*	5.6*	20.1	-18.6*
Has personal doctor	49.0	5.3*	4.9*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	45.0		4.8*	40.2	
Less than high school	33.5	-11.4*	-0.5	34.0	-6.1*
High school graduate	38.9	-6.1*	3.3*	35.6	-4.6*
Some college or associate's degree	44.0	-1.0	5.2*	38.8	-1.4*
Bachelor's degree or higher	52.9	8.9*	5.0*	47.9	9.2*
Household Income					
Less than $25,000	35.8	-7.9*	1.0	34.8	-3.9*
$25,000 to $49,999	40.8	-2.9*	4.3*	36.5	-2.2*
$50,000 to $74,999	43.2	-0.4	4.7*	38.6	-0.1
$75,000 or more	49.3	5.7*	6.5*	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.
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Vermont

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.

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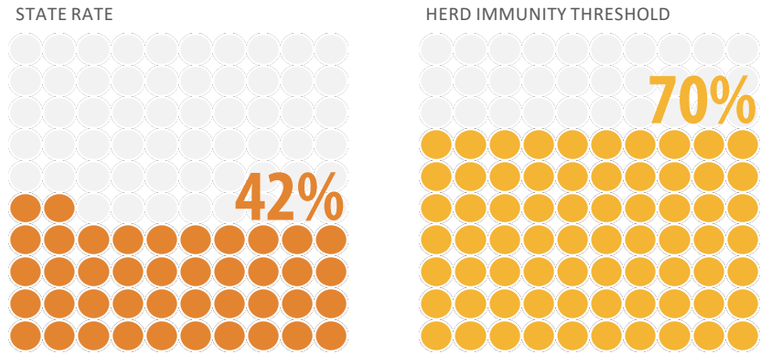
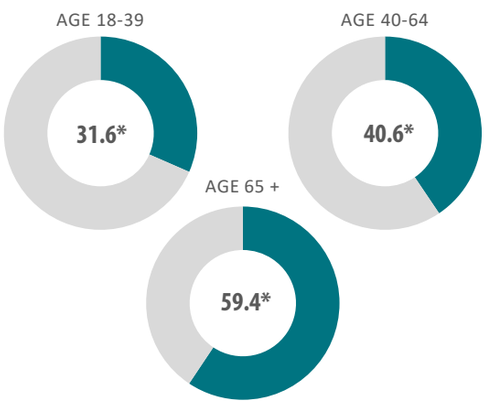
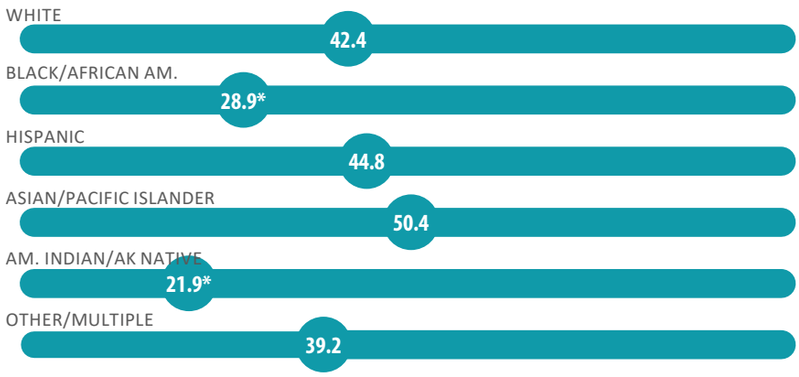


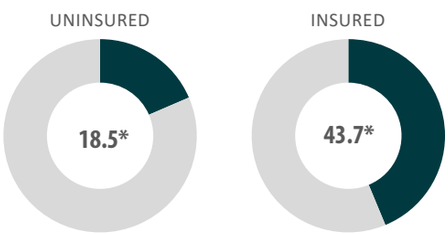
Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity



Flu Vaccination Rates by Insurance Status



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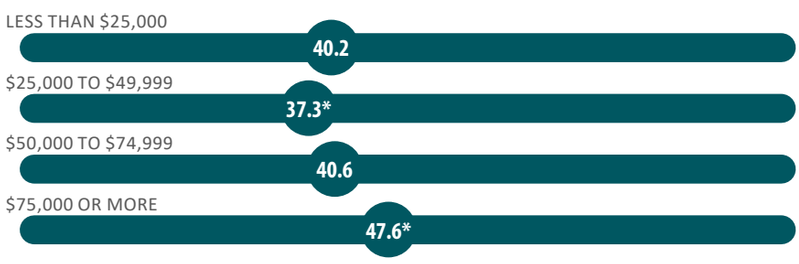

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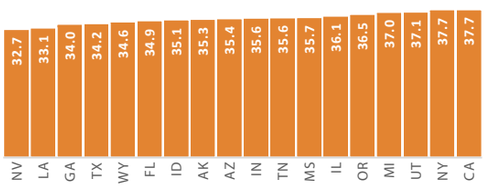

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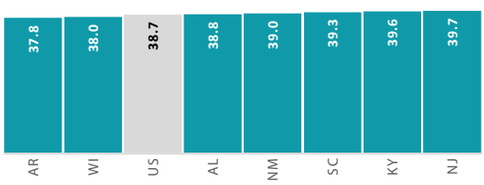

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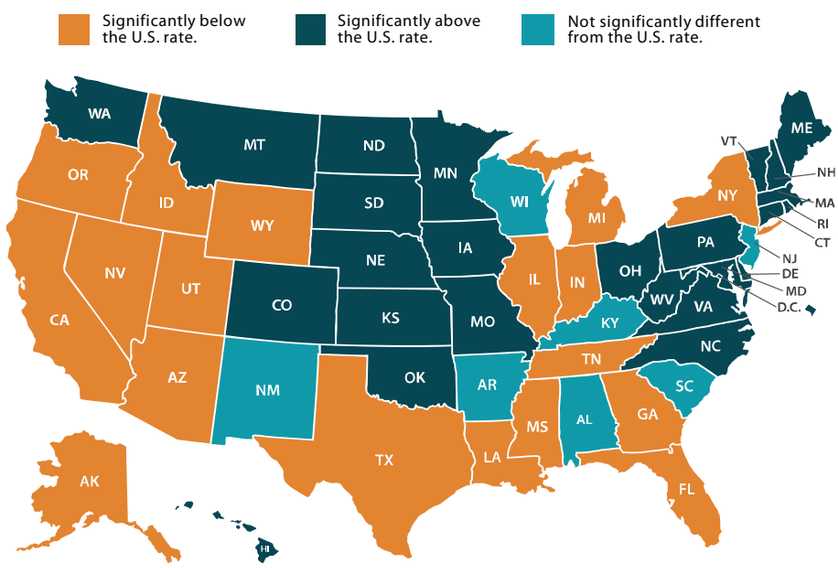

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Vermont

	Vermont			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	42.1		3.5*	38.7	
Age					
18-39	31.6	-10.6*	3.0*	28.5	-10.2*
40-64	40.6	-1.6*	3.4*	37.2	-1.5*
65+	59.4	17.2*	0.0	59.4	20.7*
Race/Ethnicity					
White	42.4	0.2	0.7	41.7	3.0*
Black/African American	28.9	-13.2*	-3.9	32.8	-5.9*
Hispanic	44.8	2.6	13.8*	30.9	-7.7*
Asian/Pacific Islander	50.4	8.3	9.1	41.4	2.7*
American Indian/Alaska Native	21.9	-20.2*	-12.0*	33.9	-4.8*
Other/multiple	39.2	-2.9	4.3	34.9	-3.8*
Sex					
Male	39.1	-3.1*	3.7*	35.4	-3.3*
Female	45.1	3.0*	3.3*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	39.6	-2.6*	4.2*	35.4	-3.3*
1+ chronic conditions	50.5	8.3*	1.3	49.1	10.5*
Health Insurance Coverage					
Uninsured	18.5	-23.6*	0.9	17.6	-21.1*
Insured	43.7	1.6*	2.1*	41.6	2.9*
Access to Care					
No personal doctor	19.7	-22.4*	-0.4	20.1	-18.6*
Has personal doctor	45.6	3.4*	1.5*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	43.8		3.7*	40.2	
Less than high school	41.8	-2.0	7.8*	34.0	-6.1*
High school graduate	38.2	-5.7*	2.6*	35.6	-4.6*
Some college or associate's degree	41.6	-2.2*	2.8*	38.8	-1.4*
Bachelor's degree or higher	50.3	8.7*	2.4*	47.9	9.2*
Household Income					
Less than $25,000	40.2	-1.9	5.4*	34.8	-3.9*
$25,000 to $49,999	37.3	-4.8*	0.8	36.5	-2.2*
$50,000 to $74,999	40.6	-1.5	2.0	38.6	-0.1
$75,000 or more	47.6	5.4*	4.7*	42.8	4.1*

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Washington

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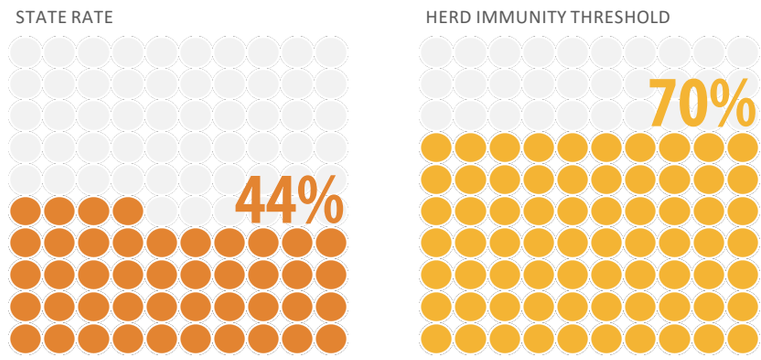
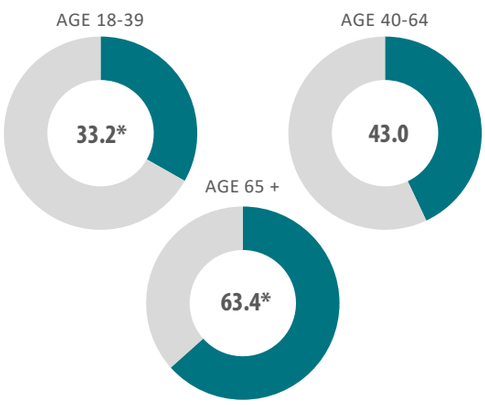
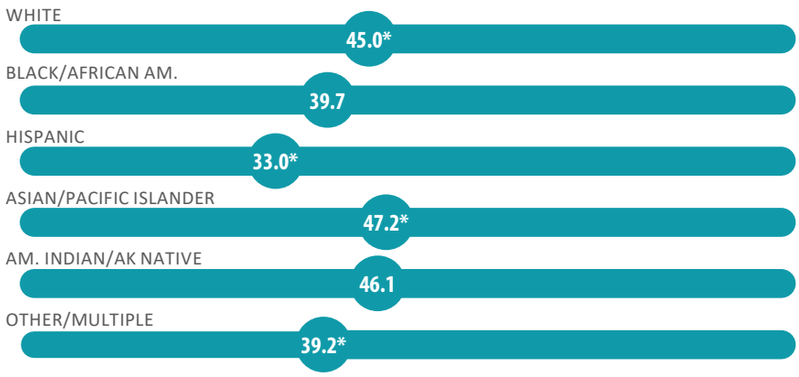


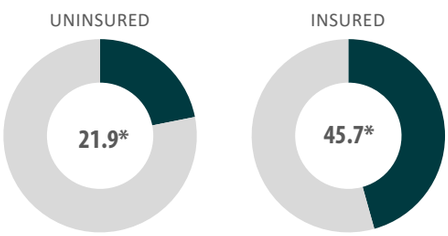
Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity



Flu Vaccination Rates by Insurance Status



Flu Vaccination Rates by Household Income

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State vs. National Adult Flu Vaccination Rates

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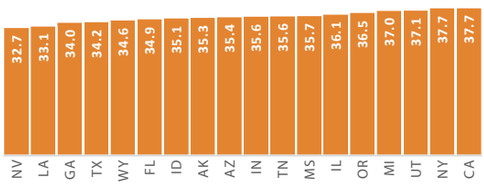

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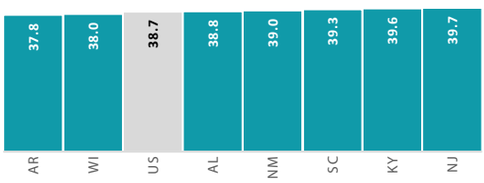

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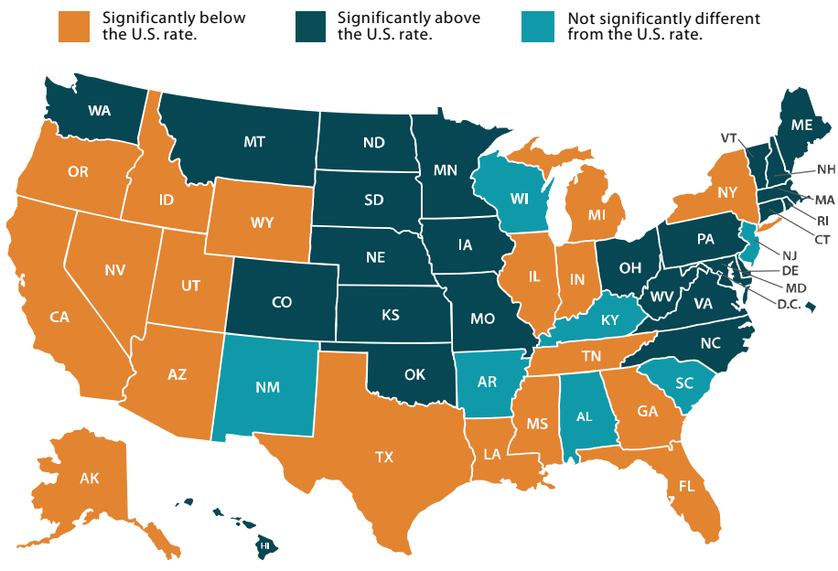

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Washington

	Washington			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	43.6		4.9*	38.7	
Age					
18-39	33.2	-10.4*	4.7*	28.5	-10.2*
40-64	43.0	-0.6	5.8*	37.2	-1.5*
65+	63.4	19.8*	4.0*	59.4	20.7*
Race/Ethnicity					
White	45.0	1.4*	3.3*	41.7	3.0*
Black/African American	39.7	-3.9	6.9*	32.8	-5.9*
Hispanic	33.0	-10.6*	2.1	30.9	-7.7*
Asian/Pacific Islander	47.2	3.6*	5.9*	41.4	2.7*
American Indian/Alaska Native	46.1	2.5	12.3*	33.9	-4.8*
Other/multiple	39.2	-4.4*	4.3*	34.9	-3.8*
Sex					
Male	40.1	-3.5*	4.7*	35.4	-3.3*
Female	47.1	3.5*	5.3*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	40.3	-3.3*	4.9*	35.4	-3.3*
1+ chronic conditions	54.7	11.1*	5.6*	49.1	10.5*
Health Insurance Coverage					
Uninsured	21.9	-21.7*	4.3*	17.6	-21.1*
Insured	45.7	2.1*	4.1*	41.6	2.9*
Access to Care					
No personal doctor	23.2	-20.4*	3.1*	20.1	-18.6*
Has personal doctor	50.0	6.4*	5.9*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	45.2		5.0*	40.2	
Less than high school	32.8	-12.4*	-1.3	34.0	-6.1*
High school graduate	37.6	-7.5*	2.1*	35.6	-4.6*
Some college or associate's degree	44.2	-1.0	5.4*	38.8	-1.4*
Bachelor's degree or higher	54.1	9.9*	6.1*	47.9	9.2*
Household Income					
Less than $25,000	36.6	-7.0*	1.8	34.8	-3.9*
$25,000 to $49,999	41.9	-1.7	5.4*	36.5	-2.2*
$50,000 to $74,999	43.6	0.0	5.0*	38.6	-0.1
$75,000 or more	48.0	4.4*	5.2*	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

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.

Wisconsin

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.

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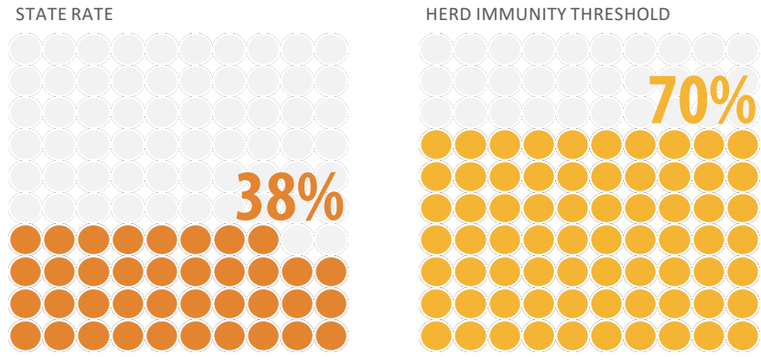

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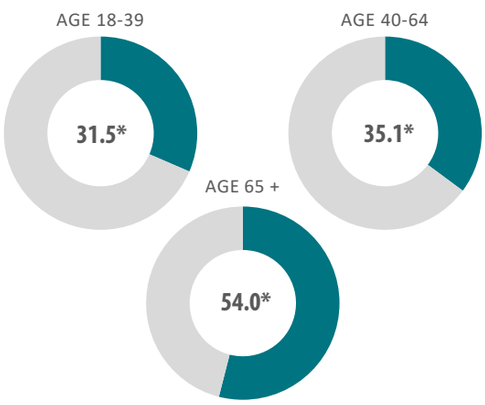

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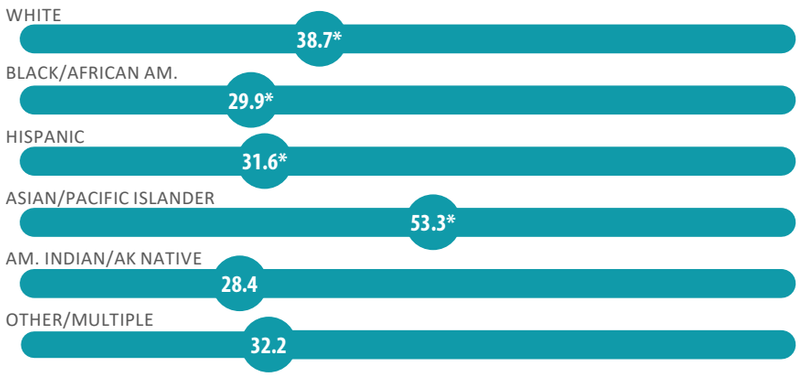
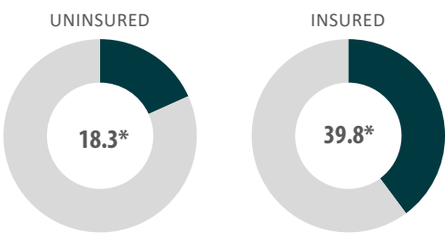


Flu Vaccination Rates by Insurance Status



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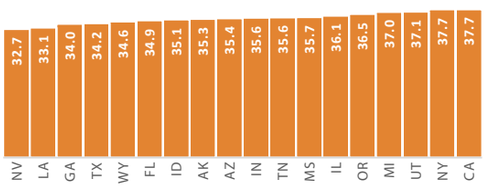

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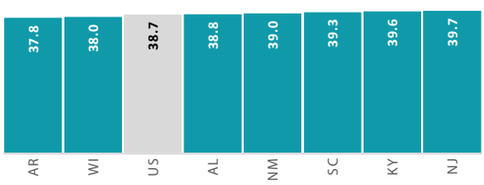

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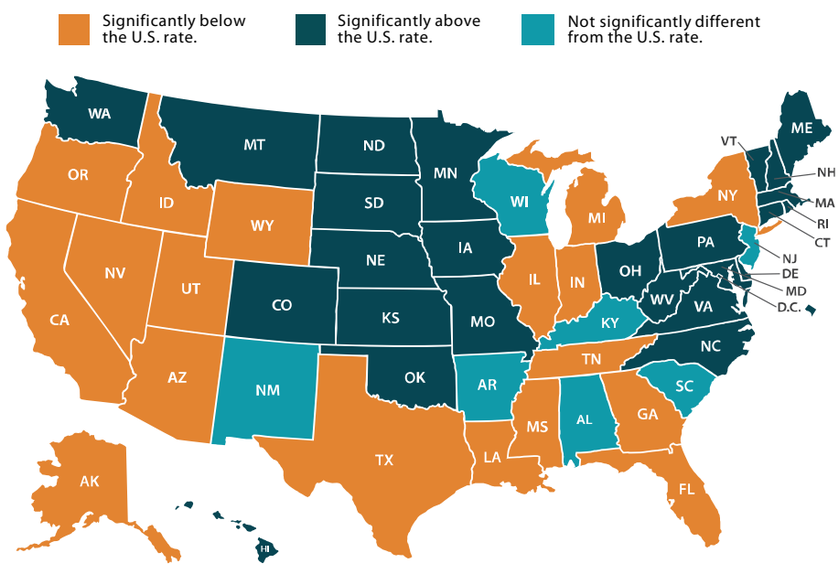

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A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

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

Wisconsin

	Wisconsin			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	38.0		-0.7	38.7	
Age					
18-39	31.5	-6.5*	3.0*	28.5	-10.2*
40-64	35.1	-2.9*	-2.0*	37.2	-1.5*
65+	54.0	16.0*	-5.4*	59.4	20.7*
Race/Ethnicity					
White	38.7	0.7*	-3.0*	41.7	3.0*
Black/African American	29.9	-8.1*	-2.9	32.8	-5.9*
Hispanic	31.6	-6.4*	0.7	30.9	-7.7*
Asian/Pacific Islander	53.3	15.3*	11.9*	41.4	2.7*
American Indian/Alaska Native	28.4	-9.6	-5.5	33.9	-4.8*
Other/multiple	32.2	-5.9	-2.7	34.9	-3.8*
Sex					
Male	33.2	-4.8*	-2.2*	35.4	-3.3*
Female	42.5	4.4*	0.7	41.8	3.1*
Chronic Condition Status					
No chronic conditions	35.0	-3.0*	-0.4	35.4	-3.3*
1+ chronic conditions	48.7	10.7*	-0.4	49.1	10.5*
Health Insurance Coverage					
Uninsured	18.3	-19.7*	0.7	17.6	-21.1*
Insured	39.8	1.8*	-1.8*	41.6	2.9*
Access to Care					
No personal doctor	18.5	-19.5*	-1.6	20.1	-18.6*
Has personal doctor	42.0	4.0*	-2.1*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	39.0		-1.2*	40.2	
Less than high school	31.3	-7.7*	-2.8	34.0	-6.1*
High school graduate	34.9	-4.1*	-0.6	35.6	-4.6*
Some college or associate's degree	36.0	-3.0*	-2.8*	38.8	-1.4*
Bachelor's degree or higher	48.8	12.8*	0.8	47.9	9.2*
Household Income					
Less than $25,000	36.3	-1.7	1.6	34.8	-3.9*
$25,000 to $49,999	33.7	-4.3*	-2.8*	36.5	-2.2*
$50,000 to $74,999	35.5	-2.5*	-3.1*	38.6	-0.1
$75,000 or more	43.0	5.0*	0.2	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.
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West Virginia

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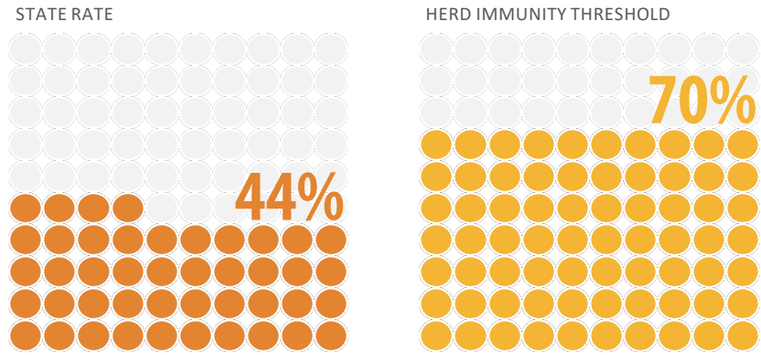
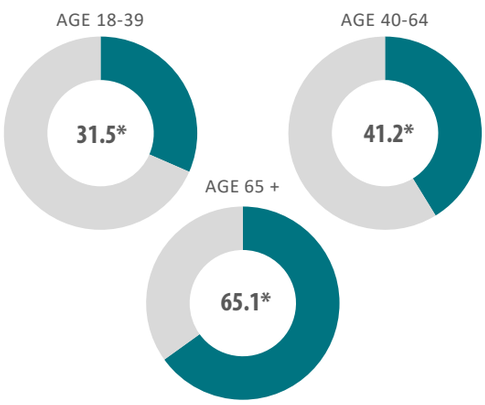


Flu Vaccination Rates by Age



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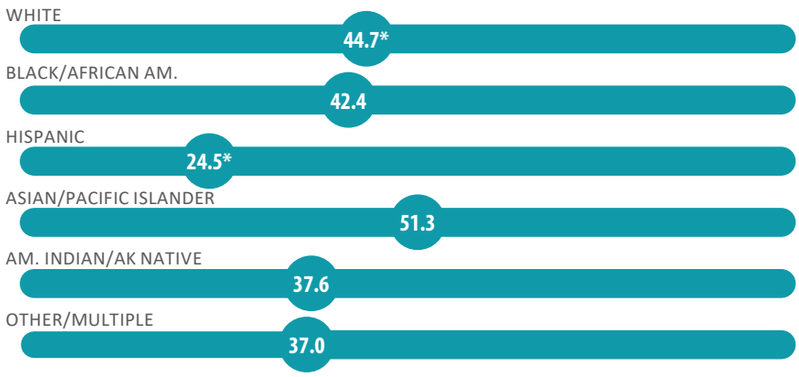

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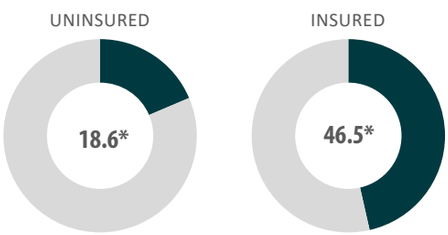

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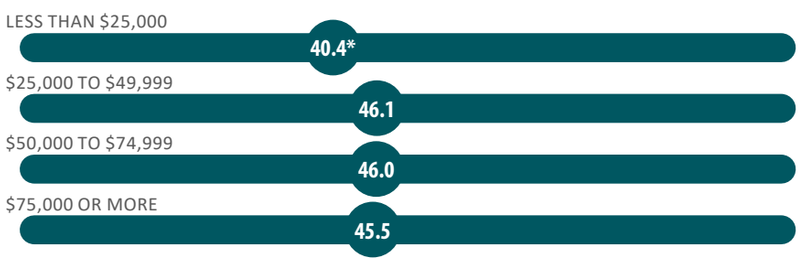

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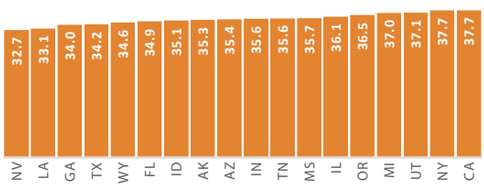

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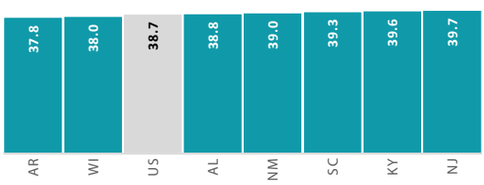

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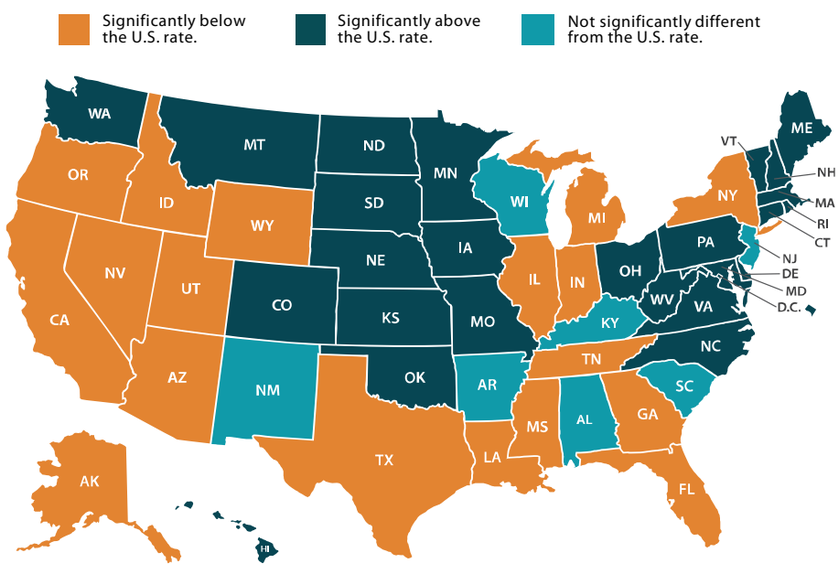

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West Virginia

	West Virginia			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	44.1		5.4*	38.7	
Age					
18-39	31.5	-12.6*	3.0*	28.5	-10.2*
40-64	41.2	-2.9*	4.1*	37.2	-1.5*
65+	65.1	21.0*	5.7*	59.4	20.7*
Race/Ethnicity					
White	44.7	0.6*	3.0*	41.7	3.0*
Black/African American	42.4	-1.7	9.6*	32.8	-5.9*
Hispanic	24.5	-19.6*	-6.4	30.9	-7.7*
Asian/Pacific Islander	51.3	7.2	9.9	41.4	2.7*
American Indian/Alaska Native	37.6	-6.5	3.7	33.9	-4.8*
Other/multiple	37.0	-7.1	2.2	34.9	-3.8*
Sex					
Male	39.8	-4.3*	4.5*	35.4	-3.3*
Female	48.2	4.1*	6.4*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	39.5	-4.6*	4.1*	35.4	-3.3*
1+ chronic conditions	53.7	9.6*	4.6*	49.1	10.5*
Health Insurance Coverage					
Uninsured	18.6	-25.5*	1.0	17.6	-21.1*
Insured	46.5	2.4*	4.9*	41.6	2.9*
Access to Care					
No personal doctor	19.4	-24.7*	-0.7	20.1	-18.6*
Has personal doctor	49.9	5.8*	5.8*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	45.2		5.0*	40.2	
Less than high school	42.6	-2.6	8.5*	34.0	-6.1*
High school graduate	41.8	-3.4*	6.2*	35.6	-4.6*
Some college or associate's degree	45.7	0.5	6.9*	38.8	-1.4*
Bachelor's degree or higher	53.1	7.4*	5.1*	47.9	9.2*
Household Income					
Less than $25,000	40.4	-3.7*	5.7*	34.8	-3.9*
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Wyoming

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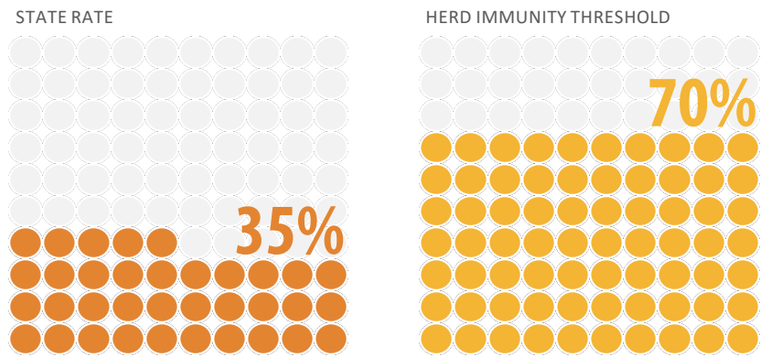

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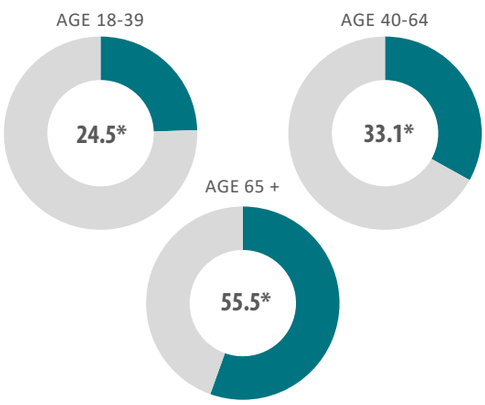

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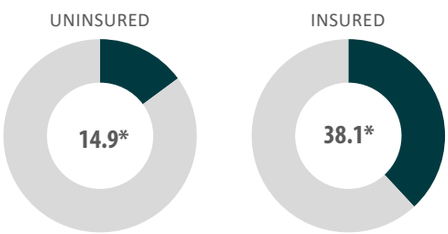

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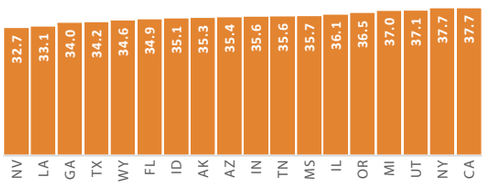

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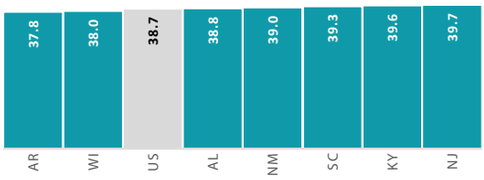
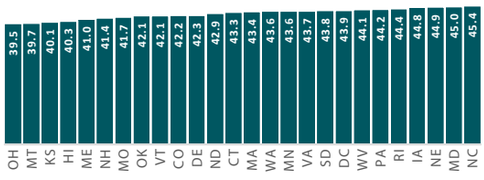
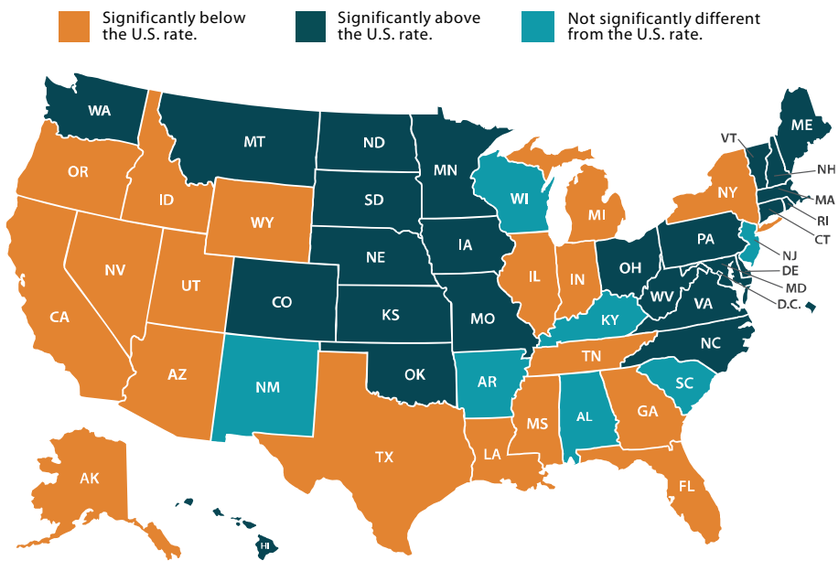


27 STATES and D.C. had flu vaccine rates significantly above the U.S. rate.





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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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.

Wyoming

	Wyoming			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	34.6		-4.1*	38.7	
Age					
18-39	24.5	-10.1*	-4.0*	28.5	-10.2*
40-64	33.1	-1.6*	-4.1*	37.2	-1.5*
65+	55.5	20.8*	-3.9*	59.4	20.7*
Race/Ethnicity					
White	35.0	0.4	-6.7*	41.7	3.0*
Black/African American	-	-	-	32.8	-5.9*
Hispanic	32.1	-2.5	1.1	30.9	-7.7*
Asian/Pacific Islander	-	-	-	41.4	2.7*
American Indian/Alaska Native	38.0	3.3	4.1	33.9	-4.8*
Other/multiple	33.5	-1.2	-1.4	34.9	-3.8*
Sex					
Male	31.1	-3.6*	-4.3*	35.4	-3.3*
Female	38.4	3.8*	-3.4*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	31.4	-3.2*	-4.0*	35.4	-3.3*
1+ chronic conditions	46.5	11.9*	-2.6*	49.1	10.5*
Health Insurance Coverage					
Uninsured	14.9	-19.7*	-2.7*	17.6	-21.1*
Insured	38.1	3.5*	-3.5*	41.6	2.9*
Access to Care					
No personal doctor	19.1	-15.5*	-1.0	20.1	-18.6*
Has personal doctor	41.9	7.2*	-2.2*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	36.0		-4.2*	40.2	
Less than high school	26.0	-10.0*	-8.0*	34.0	-6.1*
High school graduate	31.1	-4.9*	-4.5*	35.6	-4.6*
Some college or associate's degree	35.4	-0.6	-3.4*	38.8	-1.4*
Bachelor's degree or higher	44.7	9.4*	-3.2*	47.9	9.2*
Household Income					
Less than $25,000	33.6	-1.0	-1.2	34.8	-3.9*
$25,000 to $49,999	33.9	-0.7	-2.6*	36.5	-2.2*
$50,000 to $74,999	36.5	1.8	-2.1	38.6	-0.1
$75,000 or more	36.1	1.5	-6.7*	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