

Immunization

NO FLU SHOT

Definition: Respondents ages 65 and older who have not had an influenza vaccination within the past 12 months.

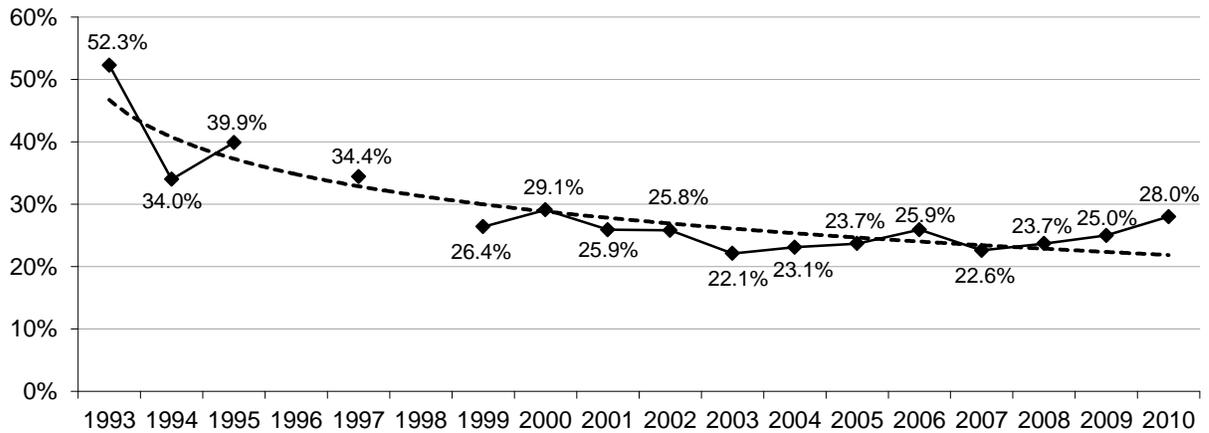
Prevalence of No Flu Shot

- South Dakota 32%
- Nationwide median 39%

Healthy People 2020 Objective

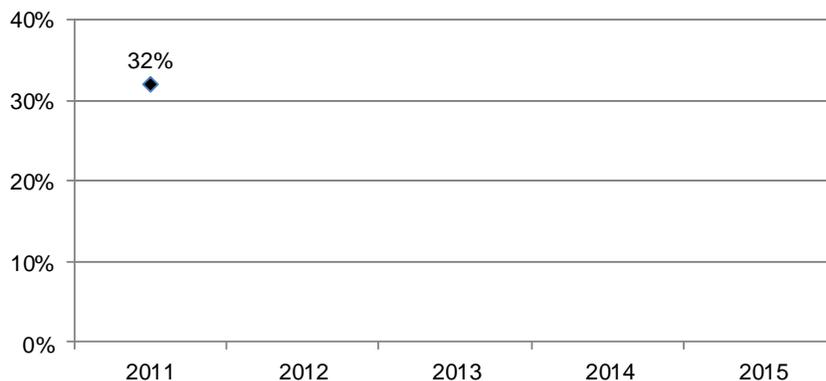
Increase the proportion of noninstitutionalized adults age 65 years and older who are vaccinated yearly against influenza to 90 percent.

Figure 58
Percent of Respondents, Ages 65 and Older, Who Have Not Had a Flu Shot within the Past 12 Months, 1993-1995, 1997, and 1999-2010



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 1993-1995, 1997, and 1999-2010

Figure 59
Percent of Respondents, Ages 65 and Older, Who Have Not Had a Flu Shot within the Past 12 Months, 2011



Note: Beginning in 2011, the CDC began using a different methodology to weight the data, therefore current data estimates cannot be compared to previous years.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2011

**Table 39
Respondents, Ages 65 and Older, Who Have Not Had a Flu Shot within the Past 12
Months, 2011**

		# Resp.	% No Flu Shot	95% CI	
				Lower	Upper
Total		2,654	32%	28%	35%
Gender	Male	961	34%	28%	40%
	Female	1,693	30%	26%	34%
Age	18-44	-	-	-	-
	45-64	-	-	-	-
	65+	2,654	32%	28%	35%
Race	White	2,414	31%	28%	35%
	American Indian	166	20%	10%	35%
Ethnicity	Hispanic	*	*	*	*
	Non-Hispanic	2,620	31%	28%	35%
Household Income	Less than \$25,000	835	31%	25%	37%
	\$25,000-\$49,999	705	30%	24%	37%
	\$50,000+	506	34%	27%	43%
Education	High School, G.E.D., or Less	1,359	34%	30%	39%
	Some Post-High School	677	26%	21%	32%
	College Graduate	613	30%	24%	37%
Employment Status	Employed for Wages	276	26%	19%	35%
	Self-employed	189	66%	52%	77%
	Unemployed	*	*	*	*
	Homemaker	178	45%	31%	59%
	Student	-	-	-	-
	Retired	1,915	27%	24%	31%
	Unable to Work	*	*	*	*
Marital Status	Married/Unmarried Couple	1,289	30%	26%	35%
	Divorced/Separated	265	40%	30%	51%
	Widowed	1,007	29%	24%	35%
	Never Married	*	*	*	*
Home Ownership Status	Own Home	2,098	33%	29%	37%
	Rent Home	495	25%	18%	32%
Children Status	Children in Household (Ages 18-44)	-	-	-	-
	No Children in Household (Ages 18-44)	-	-	-	-
Phone Status	Landline	2,577	31%	28%	35%
	Cell Phone	*	*	*	*

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2011

National Statistics

The national median for respondents age 65 and older who have not had a flu shot within the past year was 38.7 percent, as shown in Figure 60 on the next page. South Dakota had 31.7 percent of respondents who have not had a flu shot within the past 12 months. Iowa had the lowest percent of respondents who have not had a flu shot within the past 12 months with 29.8 percent, while Alaska had the highest with 48.2 percent.

Table 40 (continued)
No Flu Shot, Ages 65 and Older, within the Past 12 Months for Selected Health Behaviors and Conditions, 2011

Health Behavior or Condition	# Respondents	% No Flu Shot	95% CI	
			Lower	Upper
Smokeless Tobacco	*	*	*	*
No Smokeless Tobacco	2,600	31%	28%	35%
Diabetes	490	20%	15%	27%
No Diabetes	2,163	35%	31%	39%
High Blood Pressure	1,592	27%	23%	31%
No High Blood Pressure	1,058	39%	33%	44%
High Blood Cholesterol	1,332	29%	24%	34%
No High Blood Cholesterol	1,131	31%	26%	36%
Pneumonia Shot (65+)	1,742	20%	16%	23%
No Pneumonia Shot (65+)	810	58%	51%	64%
Drank Alcohol in Past 30 Days	1,000	34%	29%	40%
Did Not Drink Alcohol in Past 30 Days	1,638	30%	26%	35%
Binge Drinker	*	*	*	*
Not a Binge Drinker	2,555	32%	28%	35%
Heavy Drinker	*	*	*	*
Not a Heavy Drinker	2,571	31%	28%	35%
Always/Almost Always Wear Seat Belt	2,341	30%	27%	34%
Sometimes/Seldom/Never Wear Seat Belt	299	40%	30%	51%
Previously Had Heart Attack	361	15%	11%	22%
Never Had Heart Attack	2,270	35%	31%	39%
Have Angina or Coronary Heart Disease	345	19%	13%	26%
Do Not Have Angina or Coronary Heart Disease	2,261	34%	30%	38%
Previously Had a Stroke	200	25%	16%	38%
Never Had a Stroke	2,444	32%	29%	36%
Cancer	833	30%	25%	37%
No Cancer	1,810	32%	28%	37%
Skin Cancer	489	31%	23%	39%
No Skin Cancer	2,155	32%	28%	36%
Current Asthma	221	17%	9%	27%
Former Asthma	*	*	*	*
Never Had Asthma	2,364	33%	29%	37%
Arthritis	1,342	27%	23%	31%
No Arthritis	1,299	36%	31%	42%
COPD	290	22%	15%	32%
No COPD	2,350	33%	30%	37%
Depression	332	27%	19%	38%
No Depression	2,316	32%	29%	36%
Kidney Disease	122	22%	11%	39%
No Kidney Disease	2,523	32%	29%	36%
Vision Impairment	990	30%	25%	36%
No Vision Impairment	1,653	33%	29%	37%
Good/Very Good/Excellent Health Status	2,036	34%	30%	38%
Fair/Poor Health Status	613	24%	18%	31%
Physical Health Not Good for 0-29 Days of the Past 30	2,328	33%	30%	37%
Physical Health Not Good for 30 Days of the Past 30	236	19%	12%	28%
Mental Health Not Good for 0-19 Days of the Past 30	2,514	32%	28%	35%
Mental Health Not Good for 20-30 Days of the Past 30	*	*	*	*
Usual Activities Unattainable for 0-9 Days of the Past 30	2,431	32%	29%	36%
Usual Activities Unattainable for 10-30 Days of the Past 30	191	23%	13%	37%
Physical, Mental, or Emotional Problems	1,023	25%	20%	30%
No Physical, Mental, or Emotional Problems	1,624	35%	31%	40%
Disability with Special Equipment Needed	524	24%	17%	32%
No Disability with Special Equipment Needed	2,129	33%	30%	37%
Been Tested for HIV (18-64)	143	30%	19%	44%
Never Been Tested for HIV (18-64)	2,417	32%	29%	36%

Note: *Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2011

NO PNEUMONIA SHOT

Definition: Respondents ages 65 and older who have never had a pneumonia vaccination

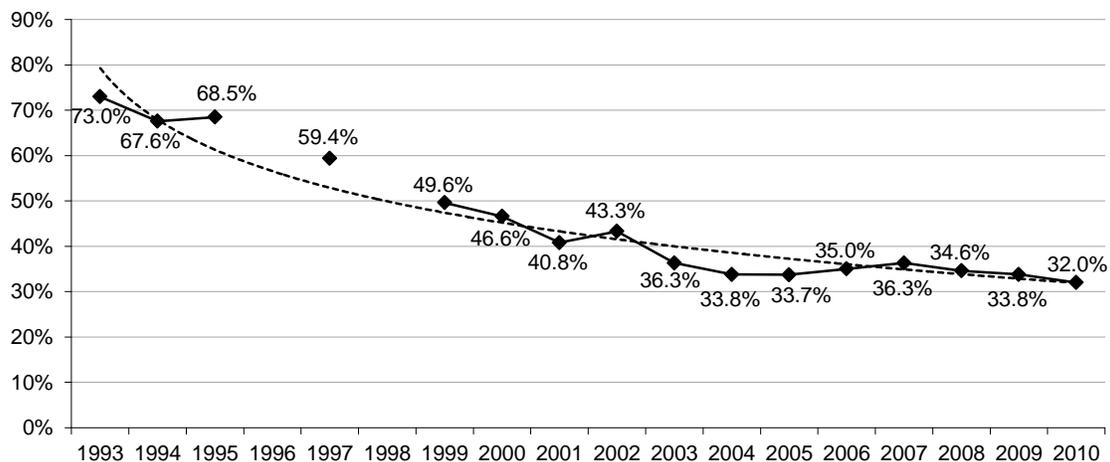
Prevalence of No Pneumonia Shot

- South Dakota 33%
- Nationwide median 30%

Healthy People 2020 Objective

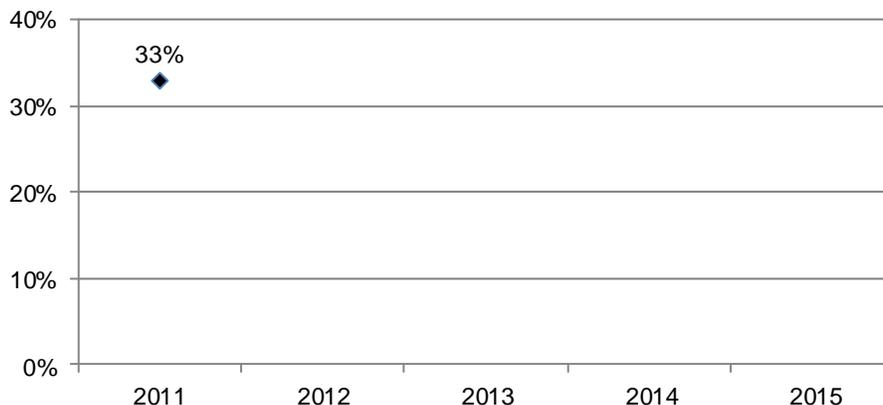
Increase the proportion of noninstitutionalized adults age 65 years and older who are vaccinated against pneumonia to 90 percent.

Figure 61
Percent of Respondents, Ages 65 and Older, Who Have Never Had a Pneumonia Shot, 1993-1995, 1997, and 1999-2010



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 1993-1995, 1997, and 1999-2010

Figure 62
Percent of Respondents, Ages 65 and Older, Who Have Never Had a Pneumonia Shot, 2011



Note: Beginning in 2011, the CDC began using a different methodology to weight the data, therefore current data estimates cannot be compared to previous years.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2011

**Table 41
Respondents, Ages 65 and Older, Who Have Never Had a Pneumonia Shot, 2011**

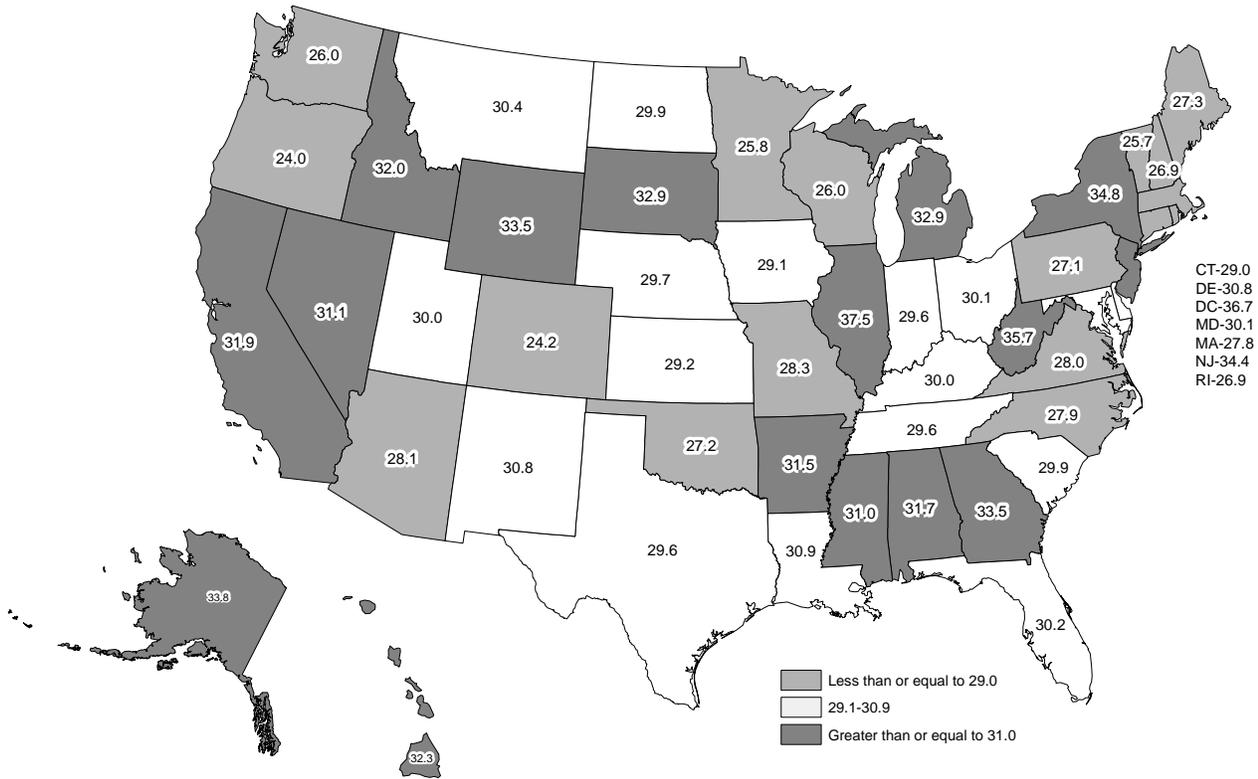
		# Resp.	% No Pneumonia Shot	95% CI	
				Lower	Upper
Total		2,566	33%	30%	36%
Gender	Male	907	36%	30%	42%
	Female	1,659	31%	27%	35%
Age	18-44	-	-	-	-
	45-64	-	-	-	-
	65+	2,566	33%	30%	36%
Race	White	2,336	33%	29%	36%
	American Indian	158	19%	11%	29%
Ethnicity	Hispanic	*	*	*	*
	Non-Hispanic	2,533	32%	29%	36%
Household Income	Less than \$25,000	812	33%	27%	39%
	\$25,000-\$49,999	681	29%	23%	35%
	\$50,000+	486	40%	32%	49%
Education	High School, G.E.D., or Less	1,313	31%	27%	36%
	Some Post-High School	654	34%	28%	40%
	College Graduate	594	38%	31%	46%
Employment Status	Employed for Wages	270	37%	28%	48%
	Self-employed	178	55%	41%	69%
	Unemployed	*	*	*	*
	Homemaker	174	41%	28%	56%
	Student	-	-	-	-
	Retired	1,851	30%	26%	34%
	Unable to Work	*	*	*	*
Marital Status	Married/Unmarried Couple	1,240	34%	29%	39%
	Divorced/Separated	255	34%	25%	44%
	Widowed	979	30%	25%	36%
	Never Married	*	*	*	*
Home Ownership Status	Own Home	2,018	35%	31%	39%
	Rent Home	489	24%	18%	32%
Children Status	Children in Household (Ages 18-44)	-	-	-	-
	No Children in Household (Ages 18-44)	-	-	-	-
Phone Status	Landline	2,492	33%	30%	37%
	Cell Phone	*	*	*	*

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2011

National Statistics

The national median for respondents who have never had a pneumonia shot was 30 percent, as shown in Figure 63 on the next page. South Dakota had 32.9 percent of respondents who have never had a pneumonia shot. Oregon had the lowest percent of respondents who have never had a pneumonia shot with 24 percent, while Illinois had the highest with 37.5 percent.

Figure 63
Nationally, Respondents Ages 65 and Older, Who Have Never Had a
Pneumonia Shot, 2011



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2011

Further Analysis

The following data show the percent of those, ages 65 and older, who have never had a pneumonia shot for various health behaviors and conditions. For example, 23 percent of respondents who have a physical, mental or emotional disability had no pneumonia shot, while 38 percent of respondents who do not have a physical, mental or emotional disability had no pneumonia shot.

Health Behavior or Condition	# Respondents	% No Pneumonia Shot	95% CI	
			Lower	Upper
Underweight (BMI < 18.5)	*	*	*	*
Recommended (BMI = 18.5-24.9)	819	34%	28%	41%
Overweight (BMI = 25.0-29.9)	1,028	33%	28%	38%
Obese - Class I (BMI = 30.0-34.9)	393	27%	20%	35%
Obese - Classes II & III (BMI = 35.0+)	174	29%	17%	45%
Leisure Time Exercise	1,669	34%	30%	38%
No Leisure Time Exercise	891	31%	26%	38%
Meet Aerobic Recommendations	1,189	34%	29%	39%
Did Not Meet Aerobic Recommendations	1,294	33%	28%	38%
At Least Five Servings of Fruits and Vegetables	338	25%	18%	33%
Less Than Five Servings of Fruits and Vegetables	2,207	34%	30%	38%
Current Smoker	247	38%	27%	51%
Former Smoker	1,045	28%	23%	32%
Never Smoked	1,268	36%	31%	42%

Table 42 (continued)
No Pneumonia Shot, Ages 65 and Older, for Selected Health Behaviors and Conditions, 2011

Health Behavior or Condition	# Respondents	% No Pneumonia Shot	95% CI	
			Lower	Upper
Smokeless Tobacco	*	*	*	*
No Smokeless Tobacco	2,514	33%	29%	36%
Diabetes	462	18%	12%	25%
No Diabetes	2,103	37%	33%	41%
High Blood Pressure	1,537	26%	22%	30%
No High Blood Pressure	1,026	43%	38%	49%
High Blood Cholesterol	1,292	28%	24%	33%
No High Blood Cholesterol	1,095	32%	28%	38%
Flu Shot (65+)	1,808	20%	17%	24%
No Flu Shot (65+)	744	59%	52%	66%
Drank Alcohol in Past 30 Days	969	39%	34%	45%
Did Not Drink Alcohol in Past 30 Days	1,583	29%	25%	34%
Binge Drinker	*	*	*	*
Not a Binge Drinker	2,472	33%	29%	36%
Heavy Drinker	*	*	*	*
Not a Heavy Drinker	2,486	32%	29%	36%
Always/Almost Always Wear Seat Belt	2,268	32%	28%	35%
Sometimes/Seldom/Never Wear Seat Belt	283	43%	32%	54%
Previously Had Heart Attack	351	19%	12%	27%
Never Had Heart Attack	2,194	36%	32%	39%
Have Angina or Coronary Heart Disease	337	21%	14%	29%
Do Not Have Angina or Coronary Heart Disease	2,187	35%	31%	39%
Previously Had a Stroke	190	28%	18%	41%
Never Had a Stroke	2,367	33%	30%	37%
Cancer	799	29%	23%	35%
No Cancer	1,757	35%	31%	39%
Skin Cancer	471	32%	25%	41%
No Skin Cancer	2,087	33%	29%	37%
Current Asthma	214	11%	6%	19%
Former Asthma	*	*	*	*
Never had Asthma	2,284	35%	31%	39%
Arthritis	1,300	25%	21%	29%
No Arthritis	1,255	40%	35%	46%
COPD	285	14%	8%	21%
No COPD	2,267	36%	32%	39%
Depression	325	21%	15%	30%
No Depression	2,236	35%	31%	38%
Kidney Disease	120	19%	9%	35%
No Kidney Disease	2,438	34%	30%	37%
Vision Impairment	959	26%	21%	32%
No Vision Impairment	1,597	37%	32%	42%
Good/Very Good/Excellent Health Status	1,962	37%	33%	42%
Fair/Poor Health Status	599	17%	12%	23%
Physical Health Not Good for 0-29 Days of the Past 30	2,256	35%	31%	38%
Physical Health Not Good for 30 Days of the Past 30	224	20%	12%	31%
Mental Health Not Good for 0-19 Days of the Past 30	2,431	34%	30%	37%
Mental Health Not Good for 20-30 Days of the Past 30	*	*	*	*
Usual Activities Unattainable for 0-9 Days of the Past 30	2,353	34%	31%	38%
Usual Activities Unattainable for 10-30 Days of the Past 30	181	15%	8%	28%
Physical, Mental, or Emotional Problems	985	23%	19%	28%
No Physical, Mental, or Emotional Problems	1,575	38%	34%	43%
Disability with Special Equipment Needed	509	19%	14%	26%
No Disability with Special Equipment Needed	2,056	36%	32%	40%
Been Tested for HIV (18-64)	140	29%	19%	43%
Never Been Tested for HIV (18-64)	2,346	34%	30%	38%

Note: *Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2011