

Immunization

NO FLU SHOT

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

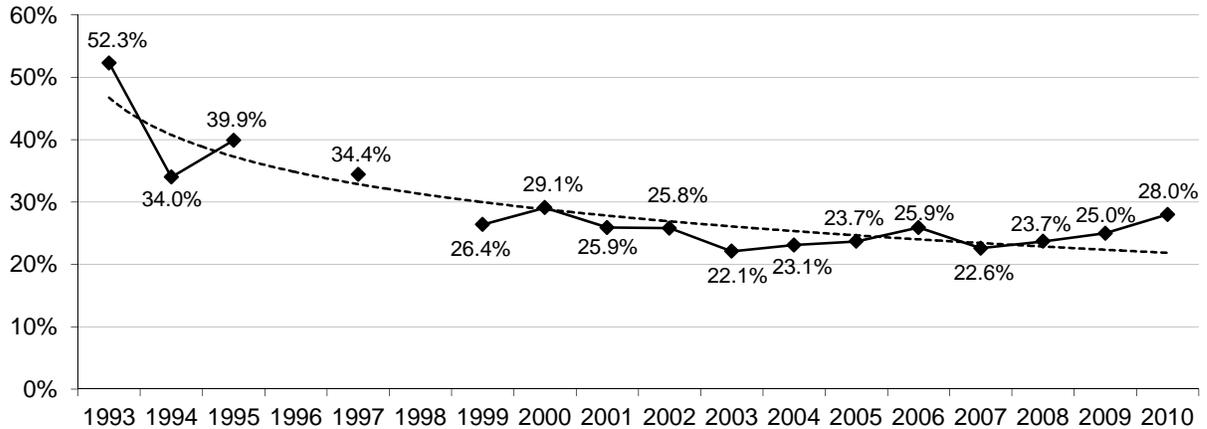
Prevalence of No Flu Shot

- South Dakota 29%
- Nationwide median 40%

Healthy People 2020 Objective

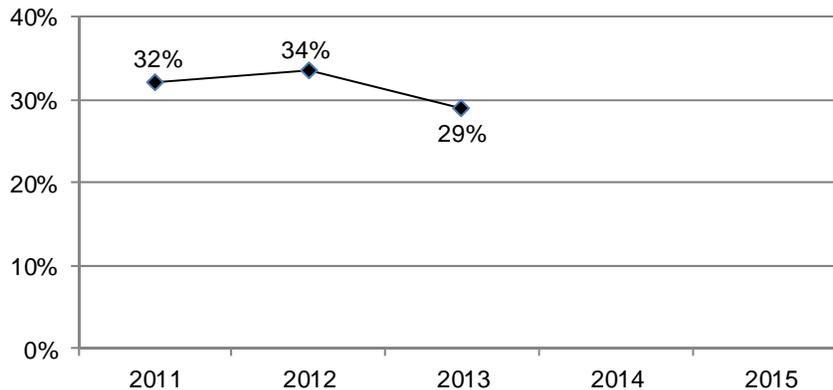
Increase the proportion of noninstitutionalized adults age 65 years and older who are vaccinated yearly against influenza to 90 percent.

Figure 52
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 53
Percent of Respondents, Ages 65 and Older, Who Have Not Had a Flu Shot Within the Past 12 Months, 2011-2013



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, 2011-2013

Table 49
Respondents, Ages 65 and Older, Who Have Not Had a Flu Shot Within the Past 12
Months, 2011-2013

		2011-2013	2011	2012	2013
Total		31%	32%	34%	29%
Gender	Male	33%	*	*	*
	Female	30%	30%	*	*
Age	18-34	-	-	-	-
	35-44	-	-	-	-
	45-54	-	-	-	-
	55-64	-	-	-	-
	65-74	36%	*	*	*
	75+	27%	*	*	*
Race	White	31%	31%	34%	29%
	American Indian	27%	*	*	*
Ethnicity	Hispanic	*	*	*	*
	Non-Hispanic	31%	31%	34%	29%
Household Income	Less than \$15,000	33%	*	*	*
	\$15,000-\$24,999	30%	*	*	*
	\$25,000-\$34,999	30%	*	*	*
	\$35,000-\$49,999	30%	*	*	*
	\$50,000-\$74,999	25%	*	*	*
	\$75,000+	34%	*	*	*
Education	Less than High School, G.E.D.	38%	*	*	*
	High School, G.E.D.	30%	*	*	*
	Some Post-High School	29%	*	*	*
	College Graduate	28%	*	*	*
Employment Status	Employed for Wages	27%	*	*	*
	Self-employed	51%	*	*	*
	Unemployed	*	*	*	*
	Homemaker	33%	*	*	*
	Student	*	*	*	*
	Retired	29%	27%	35%	*
	Unable to Work	26%	*	*	*
Marital Status	Married/Unmarried Couple	29%	*	*	*
	Divorced/Separated	43%	*	*	*
	Widowed	31%	*	*	*
	Never Married	45%	*	*	*
Home Ownership Status	Own Home	32%	33%	35%	29%
	Rent Home	25%	*	*	*
Children Status	Children in Household (Ages 18-44)	-	-	-	-
	No Children in Household (Ages 18-44)	-	-	-	-
Phone Status	Landline	31%	31%	33%	28%
	Cell Phone	37%	*	*	*
Pregnancy Status	Pregnant (Ages 18-44)	-	-	-	-
	Not Pregnant (Ages 18-44)	-	-	-	-

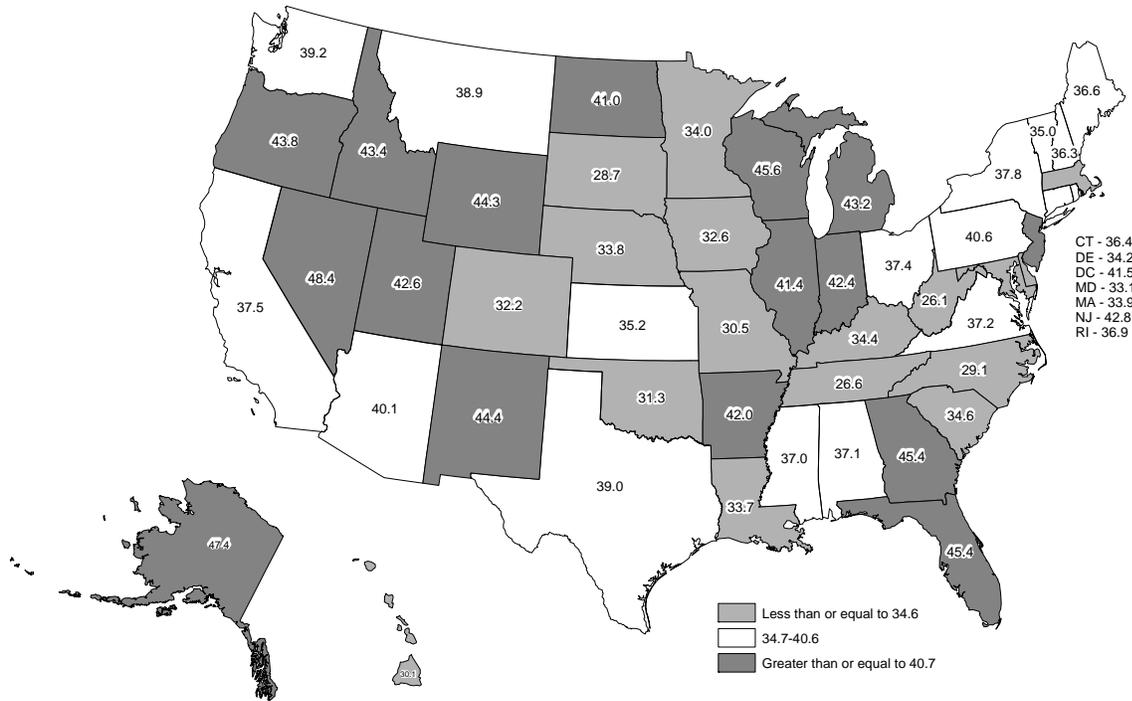
Note: *Results based on small sample sizes have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2011-2013

National Statistics

The national median for respondents age 65 and older who have not had a flu shot within the past year was 39.9 percent, as shown in Figure 54 on the next page. South Dakota had 28.7 percent of respondents who have not had a flu shot within the past 12 months. West Virginia had the lowest percent of respondents who have not had a flu shot within the past 12 months with 26.1 percent, while Nevada had the highest with 48.4 percent.

Figure 54
Nationally, Respondents Ages 65 and Older, Who Have Not Had a Flu Shot
Within the Past 12 Months, 2013



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2013

Further Analysis

The following data show the percent of those, ages 65 and older, who have not had a flu shot for various health behaviors and conditions. For example, 54 percent of respondents who have not had a pneumonia shot have also not had a flu shot, while 20 percent of respondents who have had a pneumonia shot have not had a flu shot.

Health Behavior or Condition	% No Flu Shot
Underweight (BMI < 18.5)	51%
Recommended (BMI = 18.5-24.9)	34%
Overweight (BMI = 25.0-29.9)	30%
Obese - Class I (BMI = 30.0-34.9)	29%
Obese - Classes II & III (BMI = 35.0+)	28%
Leisure Time Exercise	30%
No Leisure Time Exercise	35%
Met Physical Activity Recommendations	28%
Did Not Meet Physical Activity Recommendations	32%
2+ Servings of Fruit per Day	26%
< 2 Servings of Fruit per Day	32%
3+ Servings of Vegetables per Day	41%
< 3 Servings of Vegetables per Day	29%
5+ Servings of Fruits and Vegetables per Day	28%
< 5 Servings of Fruits and Vegetables per Day	30%

Table 50 (continued)
No Flu Shot, Ages 65 and Older, Within the Past 12 Months for
Selected Health Behaviors and Conditions, 2011-2013

Health Behavior or Condition	% No Flu Shot
Current Smoker	38%
Former Smoker	29%
Never Smoked	33%
Smokeless Tobacco	57%
No Smokeless Tobacco	31%
Heard of "South Dakota QuitLine"	27%
Not Heard of "South Dakota QuitLine"	30%
Diabetes	22%
No Diabetes	34%
High Blood Pressure	26%
No High Blood Pressure	38%
High Blood Cholesterol	27%
No High Blood Cholesterol	30%
Pneumonia Shot (65+)	20%
No Pneumonia Shot (65+)	54%
Previously Had Heart Attack	25%
Never Had Heart Attack	32%
Have Angina or Coronary Heart Disease	26%
Do Not Have Angina or Coronary Heart Disease	32%
Previously Had a Stroke	23%
Never Had a Stroke	32%
Cancer	27%
No Cancer	33%
Skin Cancer	25%
No Skin Cancer	33%
Current Asthma	22%
Former Asthma	31%
Never Had Asthma	32%
Arthritis	28%
No Arthritis	35%
COPD	20%
No COPD	33%
Depression	29%
No Depression	32%
Kidney Disease	19%
No Kidney Disease	32%
Severe Vision Impairment	33%
No Severe Vision Impairment	28%
Recent Increased Confusion/Memory Loss	26%
No Recent Increased Confusion/Memory Loss	29%
< 6 Hours of Sleep	23%
6+ Hours of Sleep	29%
Always/Almost Always Wear Seat Belt	29%
Sometimes/Seldom/Never Wear Seat Belt	43%
Drank Alcohol in Past 30 Days	30%
Did Not Drink Alcohol in Past 30 Days	32%
Binge Drinker	38%
Not a Binge Drinker	31%
Heavy Drinker	48%
Not a Heavy Drinker	31%

Table 50 (continued)
No Flu Shot, Ages 65 and Older, Within the Past 12 Months for
Selected Health Behaviors and Conditions, 2011-2013

Health Behavior or Condition	% No Flu Shot
Good/Very Good/Excellent Health Status	33%
Fair/Poor Health Status	27%
Physical Health Not Good for 0-29 Days of the Past 30	32%
Physical Health Not Good for 30 Days of the Past 30	27%
Mental Health Not Good for 0-19 Days of the Past 30	32%
Mental Health Not Good for 20-30 Days of the Past 30	23%
Usual Activities Unattainable for 0-9 Days of the Past 30	31%
Usual Activities Unattainable for 10-30 Days of the Past 30	29%
Physical, Mental, or Emotional Problems	28%
No Physical, Mental, or Emotional Problems	33%
Disability with Special Equipment Needed	25%
No Disability with Special Equipment Needed	33%
< 2 Hours of TV per Day	38%
2+ Hours of TV per Day	29%
Been Tested for HIV (18-64)	34%
Never Been Tested for HIV (18-64)	32%

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

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2011-2013

NO PNEUMONIA SHOT

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

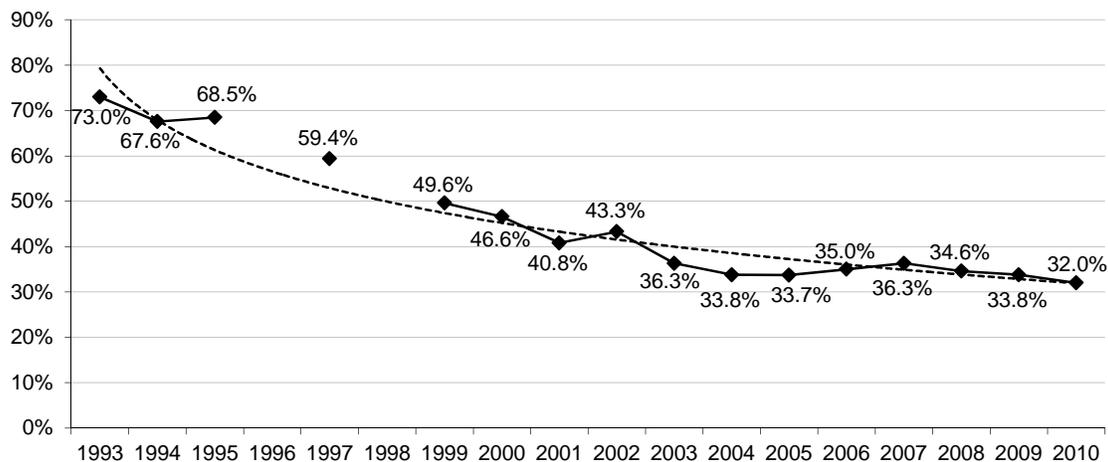
Prevalence of No Pneumonia Shot

- South Dakota 35%
- Nationwide median 31%

Healthy People 2020 Objective

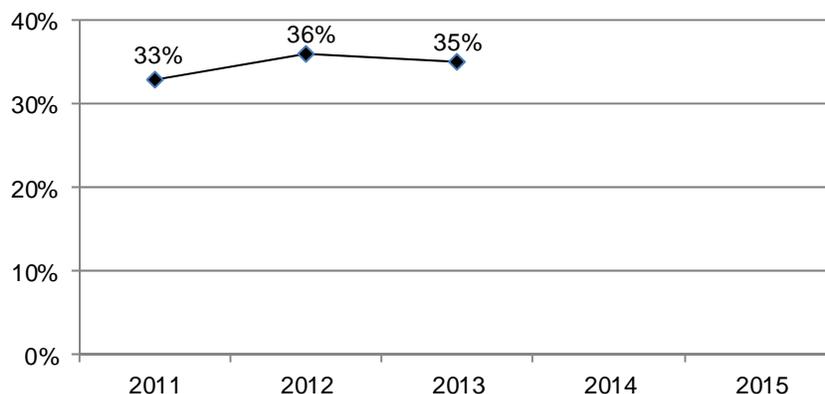
Increase the proportion of noninstitutionalized adults age 65 years and older who are vaccinated against pneumonia to 90 percent.

Figure 55
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 56
Percent of Respondents, Ages 65 and Older, Who Have Never Had a Pneumonia Shot, 2011-2013



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, 2011-2013

Table 51					
Respondents, Ages 65 and Older, Who Have Never Had a Pneumonia Shot, 2011-2013					
		2011-2013	2011	2012	2013
Total		34%	33%	36%	35%
Gender	Male	37%	*	*	*
	Female	32%	31%	*	*
Age	18-34	-	-	-	-
	35-44	-	-	-	-
	45-54	-	-	-	-
	55-64	-	-	-	-
	65-74	41%	*	*	*
	75+	28%	*	*	*
Race	White	35%	33%	37%	34%
	American Indian	19%	*	*	*
Ethnicity	Hispanic	*	*	*	*
	Non-Hispanic	34%	32%	36%	34%
Household Income	Less than \$15,000	35%	*	*	*
	\$15,000-\$24,999	32%	*	*	*
	\$25,000-\$34,999	28%	*	*	*
	\$35,000-\$49,999	33%	*	*	*
	\$50,000-\$74,999	38%	*	*	*
	\$75,000+	41%	*	*	*
Education	Less than High School, G.E.D.	34%	*	*	*
	High School, G.E.D.	33%	*	*	*
	Some Post-High School	36%	*	*	*
	College Graduate	35%	*	*	*
Employment Status	Employed for Wages	43%	*	*	*
	Self-employed	50%	*	*	*
	Unemployed	*	*	*	*
	Homemaker	35%	*	*	*
	Student	*	*	*	*
	Retired	32%	30%	33%	*
	Unable to Work	28%	*	*	*
Marital Status	Married/Unmarried Couple	35%	34%	*	*
	Divorced/Separated	40%	34%	*	*
	Widowed	31%	30%	*	*
	Never Married	42%	*	*	*
Home Ownership Status	Own Home	36%	35%	37%	36%
	Rent Home	27%	*	*	*
Children Status	Children in Household (Ages 18-44)	-	-	-	-
	No Children in Household (Ages 18-44)	-	-	-	-
Phone Status	Landline	34%	33%	37%	32%
	Cell Phone	40%	*	*	*
Pregnancy Status	Pregnant (Ages 18-44)	-	-	-	-
	Not Pregnant (Ages 18-44)	-	-	-	-

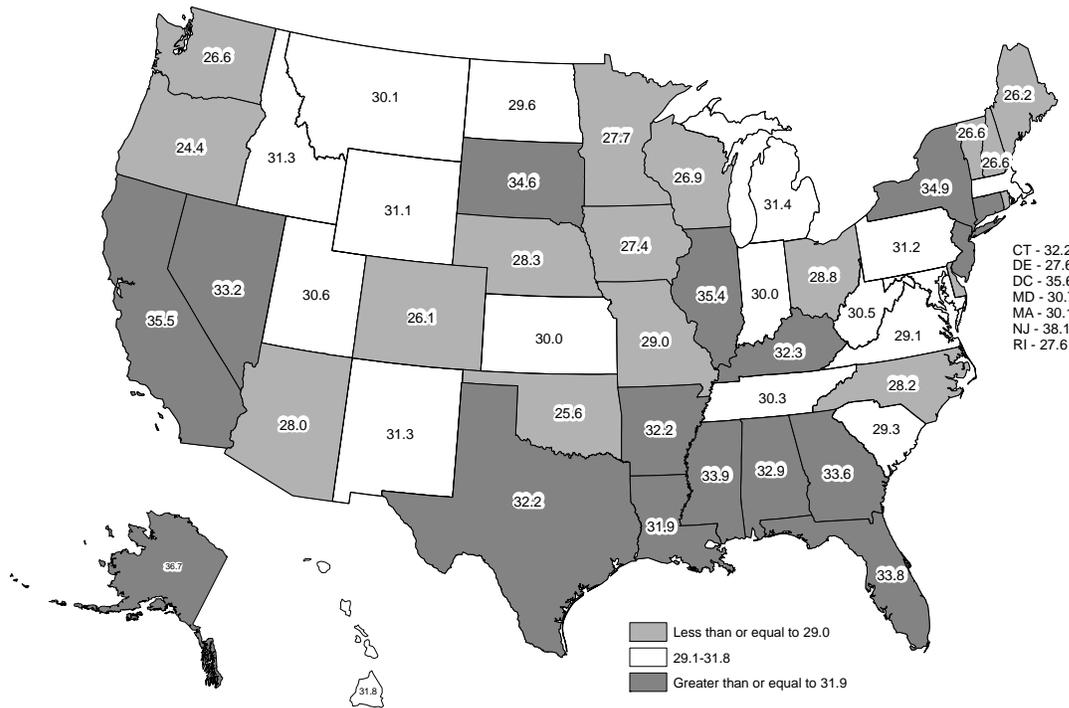
Note: *Results based on small sample sizes have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2011-2013

National Statistics

The national median for respondents who have never had a pneumonia shot was 30.5 percent, as shown in Figure 57 on the next page. South Dakota had 34.6 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 24.4 percent, while New Jersey had the highest with 38.1 percent.

Figure 57
Nationally, Respondents Ages 65 and Older, Who Have Never Had a Pneumonia Shot, 2013



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2013

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, 28 percent of respondents who have arthritis had no pneumonia shot, while 41 percent of respondents who do not have arthritis had no pneumonia shot.

Table 52	
No Pneumonia Shot, Ages 65 and Older, for Selected Health Behaviors and Conditions, 2011-2013	
Health Behavior or Condition	% No Pneumonia Shot
Underweight (BMI < 18.5)	38%
Recommended (BMI = 18.5-24.9)	36%
Overweight (BMI = 25.0-29.9)	35%
Obese - Class I (BMI = 30.0-34.9)	30%
Obese - Classes II & III (BMI = 35.0+)	31%
Leisure Time Exercise	35%
No Leisure Time Exercise	33%
Met Physical Activity Recommendations	34%
Did Not Meet Physical Activity Recommendations	34%
2+ Servings of Fruit per Day	31%
< 2 Servings of Fruit per Day	36%

**Table 52 (continued)
No Pneumonia Shot, Ages 65 and Older, for Selected Health
Behaviors and Conditions, 2011-2013**

Health Behavior or Condition	% No Pneumonia Shot
3+ Servings of Vegetables per Day	35%
< 3 Servings of Vegetables per Day	34%
5+ Servings of Fruits and Vegetables per Day	30%
< 5 Servings of Fruits and Vegetables per Day	35%
Current Smoker	40%
Former Smoker	31%
Never Smoked	36%
Smokeless Tobacco	38%
No Smokeless Tobacco	34%
Heard of "South Dakota QuitLine"	35%
Not Heard of "South Dakota QuitLine"	34%
Diabetes	23%
No Diabetes	37%
High Blood Pressure	29%
No High Blood Pressure	42%
High Blood Cholesterol	31%
No High Blood Cholesterol	34%
Flu Shot (65+)	23%
No Flu Shot (65+)	59%
Previously Had Heart Attack	21%
Never Had Heart Attack	37%
Have Angina or Coronary Heart Disease	25%
Do Not Have Angina or Coronary Heart Disease	36%
Previously Had a Stroke	25%
Never Had a Stroke	35%
Cancer	25%
No Cancer	39%
Skin Cancer	27%
No Skin Cancer	36%
Current Asthma	14%
Former Asthma	46%
Never Had Asthma	36%
Arthritis	28%
No Arthritis	41%
COPD	13%
No COPD	37%
Depression	27%
No Depression	36%
Kidney Disease	15%
No Kidney Disease	36%
Severe Vision Impairment	21%
No Severe Vision Impairment	36%
Recent Increased Confusion/Memory Loss	25%
No Recent Increased Confusion/Memory Loss	36%
< 6 Hours of Sleep	35%
6+ Hours of Sleep	35%
Always/Almost Always Wear Seat Belt	33%
Sometimes/Seldom/Never Wear Seat Belt	41%
Drank Alcohol in Past 30 Days	37%
Did Not Drink Alcohol in Past 30 Days	33%

**Table 52 (continued)
No Pneumonia Shot, Ages 65 and Older, for Selected Health
Behaviors and Conditions, 2011-2013**

Health Behavior or Condition	% No Pneumonia Shot
Binge Drinker	52%
Not a Binge Drinker	34%
Heavy Drinker	44%
Not a Heavy Drinker	34%
Good/Very Good/Excellent Health Status	37%
Fair/Poor Health Status	25%
Physical Health Not Good for 0-29 Days of the Past 30	36%
Physical Health Not Good for 30 Days of the Past 30	24%
Mental Health Not Good for 0-19 Days of the Past 30	35%
Mental Health Not Good for 20-30 Days of the Past 30	32%
Usual Activities Unattainable for 0-9 Days of the Past 30	35%
Usual Activities Unattainable for 10-30 Days of the Past 30	23%
Physical, Mental, or Emotional Problems	26%
No Physical, Mental, or Emotional Problems	39%
Disability with Special Equipment Needed	26%
No Disability with Special Equipment Needed	36%
< 2 Hours of TV per Day	48%
2+ Hours of TV per Day	32%
Been Tested for HIV (18-64)	32%
Never Been Tested for HIV (18-64)	35%

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

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2011-2013