

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 28.0%
- Nationwide median 32.5%

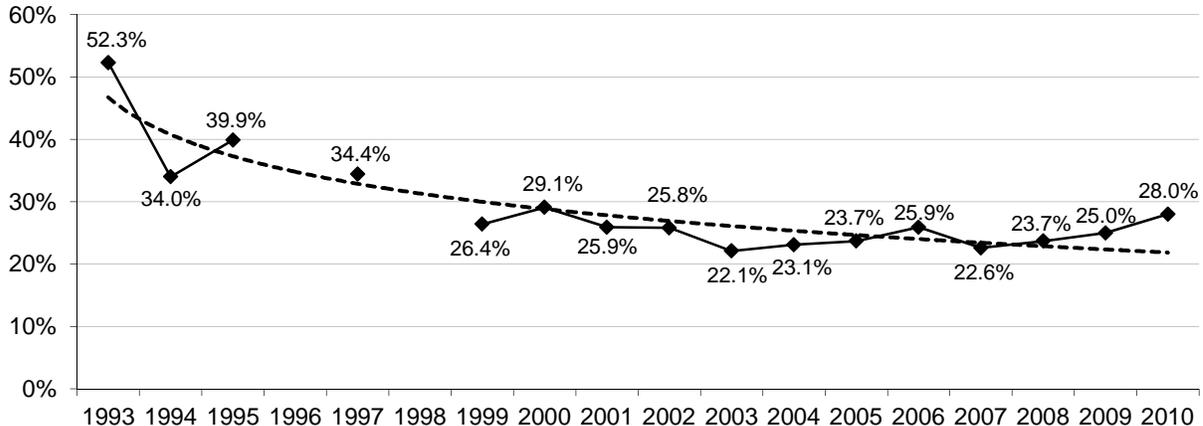
Healthy People 2010 Objective

Decrease the proportion of adults age 65 years and older who are not vaccinated yearly against influenza to 10 percent.

Trend Analysis

Overall, the trend of respondents age 65 and older who have not had a yearly flu shot has been decreasing. However in the years 2008 to 2010, there was an increase from 23.7 percent to 28 percent, respectively. South Dakota did not meet the *Healthy People 2010 Objective* of 10 percent.

Figure 41
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

Table 33
Respondents, Ages 65 and Older, Who Have Not Had a Flu Shot Within the Past 12 Months, 2010

	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
Total	2,319	28.0	(25.9-30.3)	812	30.3	(26.7-34.2)	1,507	26.3	(23.7-29.0)
Age									
18-24	-	-	-	-	-	-	-	-	-
25-34	-	-	-	-	-	-	-	-	-
35-44	-	-	-	-	-	-	-	-	-
45-54	-	-	-	-	-	-	-	-	-
55-64	-	-	-	-	-	-	-	-	-
65-74	1,153	33.7	(30.4-37.1)	461	38.9	(33.7-44.4)	692	28.8	(24.9-33.0)
75+	1,166	22.6	(19.8-25.5)	351	20.0	(15.6-25.3)	815	24.2	(20.9-27.8)
Race									
White	2,107	27.5	(25.3-29.9)	739	29.7	(26.0-33.6)	1,368	25.9	(23.3-28.7)
American Indian	145	32.7	(23.6-43.4)	*	*	*	*	*	*
Region									
Southeast	468	25.1	(21.1-29.7)	163	28.7	(22.0-36.5)	305	22.3	(17.7-27.7)
Northeast	561	28.1	(24.3-32.3)	190	31.9	(25.4-39.2)	371	25.4	(21.0-30.4)
Central	483	31.6	(27.3-36.2)	168	35.2	(28.0-43.2)	315	28.9	(23.9-34.5)
West	480	29.4	(25.3-34.0)	172	27.2	(20.9-34.6)	308	31.3	(26.0-37.1)
American Indian Counties	327	41.8	(35.6-48.2)	119	48.6	(38.8-58.5)	208	37.2	(29.5-45.6)
Household Income									
Less than \$15,000	281	40.1	(33.1-47.4)	*	*	*	*	*	*
\$15,000-\$19,999	223	29.1	(22.4-36.9)	*	*	*	*	*	*
\$20,000-\$24,999	289	23.4	(18.0-29.9)	*	*	*	*	*	*
\$25,000-\$34,999	311	22.2	(17.2-28.1)	133	26.3	(18.6-35.7)	178	17.4	(12.1-24.5)
\$35,000-\$49,999	315	27.3	(22.1-33.3)	136	29.4	(21.6-38.6)	179	25.5	(18.8-33.6)
\$50,000-\$74,999	185	23.4	(16.8-31.6)	*	*	*	*	*	*
\$75,000+	170	29.6	(22.2-38.3)	*	*	*	*	*	*
Education									
Less than High School	349	34.0	(28.0-40.5)	134	34.0	(24.8-44.7)	215	34.0	(26.6-42.2)
High School or G.E.D.	952	29.3	(26.0-32.8)	310	31.4	(25.6-37.9)	642	27.9	(24.1-32.1)
Some Post-High School	538	25.0	(20.7-29.8)	160	30.4	(22.6-39.5)	378	21.4	(16.8-26.8)
College Graduate	475	25.7	(21.3-30.7)	206	27.1	(20.8-34.6)	269	23.9	(18.3-30.7)
Marital Status									
Married/Unmarried Couple	1,098	26.3	(23.4-29.4)	520	28.2	(24.0-32.8)	578	24.1	(20.4-28.3)
Divorced/Separated	251	37.9	(30.9-45.6)	100	45.8	(34.4-57.6)	151	31.8	(23.3-41.8)
Widowed	890	28.4	(25.1-32.1)	135	30.1	(21.6-40.3)	755	28.1	(24.5-32.0)
Never Married	*	*	*	*	*	*	*	*	*
Children Status									
Children in Household	-	-	-	-	-	-	-	-	-
No Children in Household	-	-	-	-	-	-	-	-	-

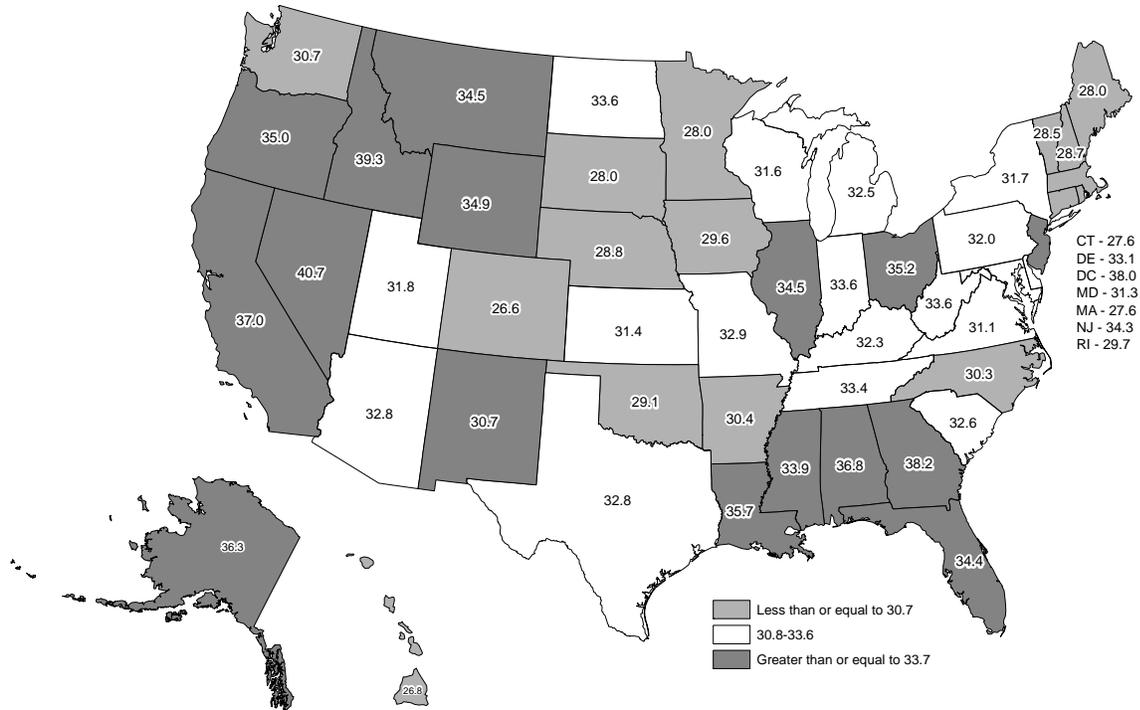
Note: *Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2010

National Statistics

The national median for respondents age 65 and older who have not had a flu shot within the past year was 32.5 percent. South Dakota had 28.0 percent of respondents who have not had a flu shot within the past 12 months. Colorado had the lowest percent of respondents who have not had a flu shot within the past 12 months with 26.6 percent, while Nevada had the highest with 40.7 percent.

Figure 42
Nationally, Respondents, Ages 65 and Older, Who Have Not Had a Flu Shot
Within the Past 12 Months, 2010



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2010

CHILDREN WITH NO FLU SHOT

Definition: *Children, ages 0-17, who have not had an influenza vaccination within the past 12 months.*

Prevalence of Children with No Flu Shot

- South Dakota 40.7%
- There is no nationwide median for children, ages 0-17, with no flu shot

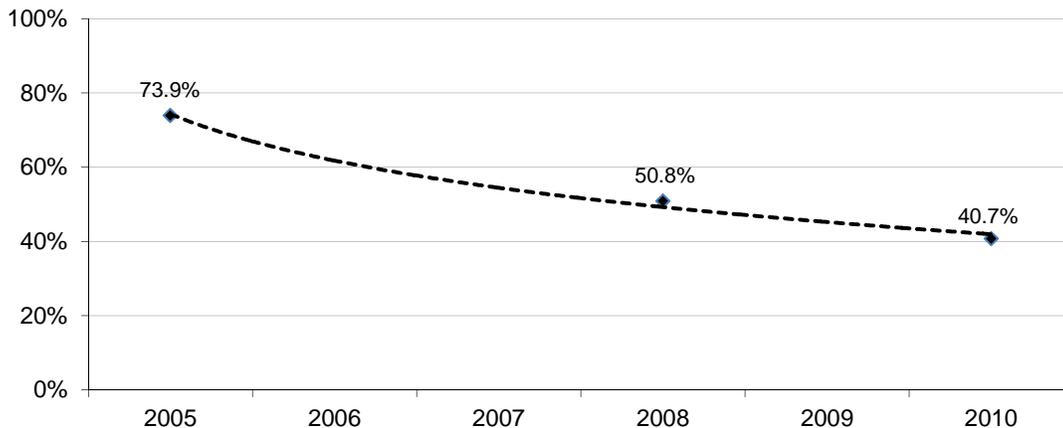
Healthy People 2010 Objective

There was no stated Healthy People 2010 Objective for children, ages 0-17, who do not get an annual influenza vaccine.

Trend Analysis

This question was first asked in 2005 when 73.9 percent of children, ages 0-17, had not had a flu shot within the past year. Since that time, there has been a large decrease in the percent of children, ages 0-17, who have not had a flu shot within the past year.

Figure 43
Percent of Children, Ages 0-17, Who Have Not Had an Influenza Shot Within the Past 12 Months, 2005, 2008, and 2010



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2005, 2008, and 2010

Table 34
Children, Ages 0-17, With No Flu Shot, 2010

Demographics	# Respondents	% No Flu Shot	95% CI
Total	888	40.7	(36.4-45.1)
Gender			
Male	480	42.7	(36.8-48.8)
Female	404	38.5	(32.4-44.9)
Age			
0-4	190	29.5	(21.4-39.2)
5-9	218	36.5	(28.7-45.1)
10-14	247	47.3	(39.2-55.5)
15-17	192	53.3	(43.4-62.8)
Race			
White	651	39.4	(34.9-44.2)
American Indian	211	50.9	(40.4-61.3)
Region			
Southeast	174	38.2	(30.5-46.6)
Northeast	172	34.8	(27.1-43.4)
Central	161	43.7	(35.0-52.7)
West	138	49.8	(40.5-59.1)
American Indian Counties	243	45.8	(38.3-53.5)
Household Income			
Less than \$20,000	123	56.8	(44.5-68.4)
\$20,000-\$34,999	144	48.7	(36.6-61.1)
\$35,000-\$49,999	135	42.5	(32.1-53.6)
\$50,000-\$74,999	184	40.3	(31.3-50.0)
\$75,000+	216	29.7	(23.2-37.1)

Note: *Results based on sample sizes less than 100 have been suppressed.
Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2010

NO PNEUMONIA SHOT

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

Prevalence of No Pneumonia Shot

- South Dakota 32.0%
- Nationwide median 31.2%

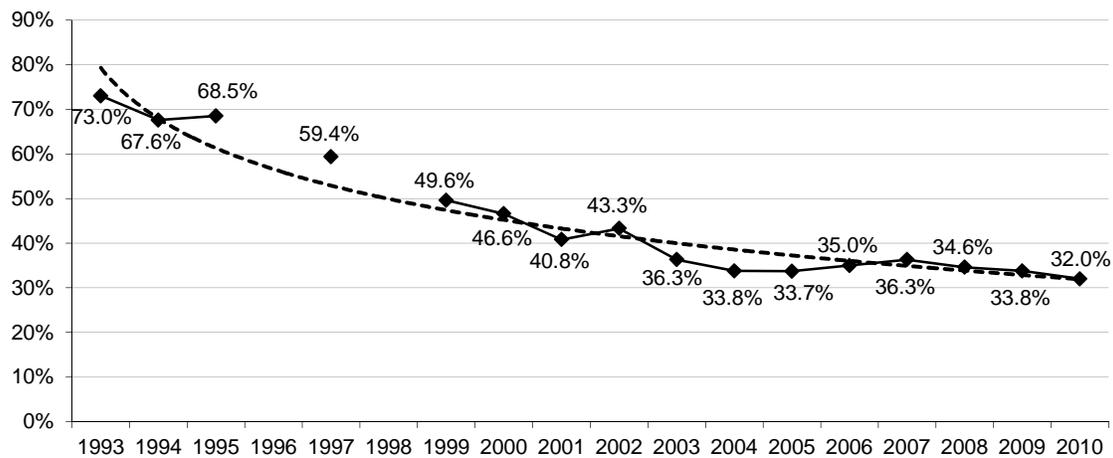
Healthy People 2010 Objective

Decrease the proportion of adults age 65 years and older who have never been vaccinated against pneumococcal disease to 10 percent.

Trend Analysis

Overall, the percent of respondents, aged 65 and older, who have never had a pneumonia shot has been decreasing. South Dakota did not meet the *Healthy People 2010 Objective* of 10 percent.

Figure 44
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

Table 35
Respondents, Ages 65 and Older, Who Have Never Had a Pneumonia Shot, 2010

	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
Total	2,262	32.0	(29.7-34.3)	777	32.8	(29.0-36.9)	1,485	31.3	(28.6-34.2)
Age									
18-24	-	-	-	-	-	-	-	-	-
25-34	-	-	-	-	-	-	-	-	-
35-44	-	-	-	-	-	-	-	-	-
45-54	-	-	-	-	-	-	-	-	-
55-64	-	-	-	-	-	-	-	-	-
65-74	1,116	40.6	(37.1-44.2)	436	40.7	(35.2-46.4)	680	40.5	(36.1-45.0)
75+	1,146	23.8	(21.0-26.8)	341	23.6	(18.9-29.2)	805	23.9	(20.6-27.5)
Race									
White	2,057	31.5	(29.2-33.9)	709	31.7	(27.8-35.7)	1,348	31.4	(28.6-34.4)
American Indian	143	22.9	(15.3-32.9)	*	*	*	*	*	*
Region									
Southeast	451	30.8	(26.5-35.6)	156	31.3	(24.2-39.4)	295	30.5	(25.2-36.3)
Northeast	546	33.0	(28.9-37.3)	181	34.4	(27.6-41.9)	365	32.0	(27.1-37.3)
Central	480	36.3	(31.8-41.1)	167	39.0	(31.5-47.1)	313	34.4	(29.0-40.1)
West	463	30.2	(25.9-34.8)	157	29.3	(22.6-37.1)	306	30.8	(25.5-36.7)
American Indian Counties	322	33.1	(27.6-39.2)	116	43.6	(33.9-53.8)	206	26.1	(20.0-33.3)
Household Income									
Less than \$15,000	276	33.1	(26.6-40.3)	*	*	*	*	*	*
\$15,000-\$19,999	221	35.9	(28.5-44.0)	*	*	*	*	*	*
\$20,000-\$24,999	280	23.5	(18.0-30.1)	*	*	*	*	*	*
\$25,000-\$34,999	299	29.6	(23.7-36.2)	124	33.4	(24.5-43.7)	175	25.3	(18.6-33.6)
\$35,000-\$49,999	312	37.3	(31.3-43.7)	133	37.6	(28.7-47.4)	179	37.1	(29.3-45.6)
\$50,000-\$74,999	*	*	*	*	*	*	*	*	*
\$75,000+	*	*	*	*	*	*	*	*	*
Education									
Less than High School	342	27.9	(22.5-34.1)	129	25.5	(17.7-35.4)	213	29.9	(22.9-38.0)
High School or G.E.D.	932	33.7	(30.2-37.3)	299	38.1	(31.9-44.8)	633	30.9	(26.9-35.3)
Some Post-High School	525	32.8	(28.0-38.0)	155	32.7	(24.4-42.2)	370	32.8	(27.3-39.0)
College Graduate	457	30.4	(25.6-35.6)	192	29.8	(23.0-37.7)	265	31.0	(24.7-38.1)
Marital Status									
Married/Unmarried Couple	1,066	31.6	(28.5-34.9)	497	29.8	(25.5-34.6)	569	33.6	(29.3-38.1)
Divorced/Separated	239	39.9	(32.6-47.7)	*	*	*	*	*	*
Widowed	878	29.0	(25.6-32.7)	132	33.7	(24.4-44.4)	746	28.1	(24.4-32.0)
Never Married	*	*	*	*	*	*	*	*	*
Children Status									
Children in Household	-	-	-	-	-	-	-	-	-
No Children in Household	-	-	-	-	-	-	-	-	-

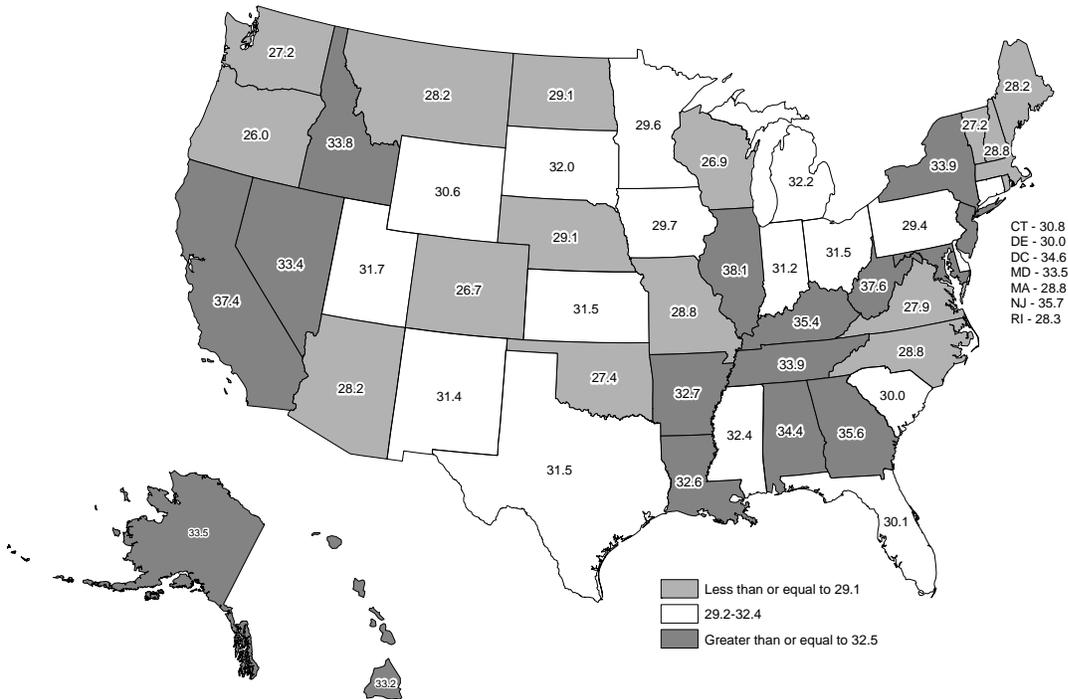
Note: *Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2010

National Statistics

The national median for respondents who have never had a pneumonia shot was 31.2 percent. South Dakota had 32 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 26.0 percent, while Illinois had the highest with 38.1 percent.

Figure 45
Nationally, Respondents, Ages 65 and Older, Who Have Never Had a Pneumonia Shot, 2010



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2010