

Iowa Adult

Cigarette and Smokeless Tobacco Use State-Level Annual Prevalence Rate Tables, 2011-2014

Iowa Behavioral Risk Factor Surveillance System (BRFSS)

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Division Mission: To establish a comprehensive partnership among state government, local communities, and the people of Iowa to foster a social and legal climate in which tobacco use becomes undesirable and unacceptable.



September 2016

Adult Cigarette Use

2011 through 2014

Iowa Behavioral Risk Factor Surveillance System (BRFSS)

Definition of current and former cigarette use:

The Behavioral Risk Factor Surveillance System (BRFSS) defines current smoking as smoking at least 100 cigarettes in a lifetime and smoking every day or some days at the time of being interviewed. Former use is defined as having smoked at least 100 cigarettes in one's life, but no longer smoking at the time of being interviewed. All rates presented are crude rates per 100 population.

Cigarette Use: 2014

Of all adult Iowans in 2014, 18.5 percent reported being a current smoker. This was a decrease from the 19.5 percent found in 2013.

The proportion of current smokers was higher for males than for females and for racial/ethnic minorities. Smoking generally declined with increasing age, education and income, although the smoking rate was lower among adults 18 to 24 years than among those 25-34 years. Only 4.9 percent of respondents age 75 years and older were current smokers.

Respondents with household incomes less than \$15,000 reported the highest proportion of current smokers (33.6%).

Link to the *Tobacco Use* chapter (pages 37-41) of the full 2014 BRFSS Report: [Chapter 11, Tobacco Use, BRFSS 2014 Annual Report](#)

Percentage of Adults who are Current and Former Smokers in Iowa, 2014

DEMOGRAPHIC	Current Smoker		Former Smoker	
	%	C.I. (95%)	%	C.I. (95%)
TOTAL	18.5	(17.3-19.7)	25.7	(24.5-26.9)
SEX				
Male	19.9	(18.1-21.7)	30.6	(28.6-32.6)
Female	17.2	(15.6-18.8)	21.0	(19.4-22.6)
RACE/ETHNICITY				
White/Non-Hispanic	18.1	(16.9-19.3)	26.6	(25.4-27.8)
Non-White or Hispanic	22.4	(17.4-27.3)	16.1	(11.8-20.3)
AGE				
18-24	17.8	(13.5-22.1)	10.8	(7.3-14.3)
25-34	25.0	(21.1-28.9)	18.0	(14.7-21.3)
35-44	22.7	(19.4-26)	21.7	(18.4-25)
45-54	22.0	(19.3-24.7)	23.3	(20.6-26)
55-64	17.6	(15.4-19.8)	31.4	(28.9-33.9)
65-74	12.7	(10.6-14.8)	42.2	(39.3-45.1)
75+	4.9	(3.5-6.3)	40.5	(37.2-43.7)
EDUCATION				
Less Than H.S.	29.7	(24-35.4)	24.8	(19.7-29.9)
H.S. or G.E.D.	22.4	(20.2-24.6)	30.0	(27.8-32.2)
Some Post-H.S.	19.2	(17-21.4)	25.4	(23.2-27.6)
College Graduate	7.7	(6.3-9.1)	20.7	(18.7-22.7)
HOUSEHOLD INCOME				
Less than \$15,000	33.6	(27.9-39.3)	20.7	(16.2-25.2)
\$15,000- 24,999	30.1	(26-34.2)	25.6	(21.9-29.3)
\$25,000- 34,999	21.3	(17.6-25)	27.5	(23.8-31.2)
\$35,000- 49,999	17.2	(14.5-19.9)	30.2	(26.9-33.5)
\$50,000- 74,999	16.7	(14-19.4)	28.9	(25.8-32)
\$75,000+	10.1	(8.3-11.9)	23.6	(21.4-25.8)

Cigarettes Use: 2013

Of all respondents surveyed in 2013, 19.5 percent reported being a current smoker. This was an increase from the 18.1 percent found in 2012.

The proportion of current smokers was higher for males than for females. Smoking generally declined with increasing education and income. Smoking rates by age increased through age 45-54 years and declined substantially after age 55-64 years. Only 4.4 percent of respondents age 75 years and older currently smoked.

Respondents with household incomes less than \$15,000 reported the highest proportion of current smokers (33.9%).

Link to the *Tobacco Use* chapter (pages 52-56) of the full 2013 BRFSS Report: [Chapter 15. Tobacco Use, BRFSS 2013 Annual Report](#)

Percentage of Adults who are Current and Former Smokers in Iowa, 2013

DEMOGRAPHIC GROUPS	Current Smoker		Former Smoker	
	%	C.I. (95%)	%	C.I. (95%)
TOTAL	19.5	(18.3-20.7)	24.4	(23.2-25.6)
SEX				
Male	22.5	(20.5-24.5)	27.7	(25.7-29.7)
Female	16.6	(15-18.2)	21.2	(19.6-22.8)
RACE/ETHNICITY				
White/Non-Hispanic	19.7	(18.3-21.1)	25.3	(24.1-26.5)
Non-White or Hispanic	18.7	(14-23.4)	15.2	(11-19.4)
AGE				
18-24	21.9	(17.2-26.6)	6.9	(4.2-9.6)
25-34	23.2	(19.5-26.9)	19.4	(16.1-22.7)
35-44	23.5	(20.2-26.8)	18.0	(14.9-21.1)
45-54	24.1	(21-27.2)	23.4	(20.5-26.3)
55-64	20.1	(17.7-22.5)	31.7	(29-34.4)
65-74	11.2	(9.2-13.2)	42.7	(39.7-45.6)
75+	4.4	(3.2-5.7)	36.8	(33.7-39.8)
EDUCATION				
Less Than H.S.	32.1	(26.2-38)	23.7	(18.8-28.6)
H.S. or G.E.D.	25.3	(22.9-27.7)	26.8	(24.8-28.8)
Some Post-H.S.	18.3	(16.1-20.5)	23.8	(21.6-26)
College Graduate	19.5	(18.3-20.7)	22.3	(20.3-24.3)
HOUSEHOLD INCOME				
Less than \$15,000	33.9	(28.6-39.2)	20.7	(16.4-25)
\$15,000- 24,999	27.7	(24-31.4)	21.6	(18.7-24.5)
\$25,000- 34,999	22.8	(18.7-26.9)	27.1	(23.4-30.8)
\$35,000- 49,999	19.0	(15.9-22.1)	25.3	(22.2-28.4)
\$50,000- 74,999	15.1	(12.6-17.6)	28.8	(25.5-32.1)
\$75,000+	11.9	(9.7-14.1)	24.2	(21.8-26.6)

Cigarette Use: 2012

Of all respondents surveyed in 2012, 18.1 percent reported being a current smoker. This was a decline from the 20.4 percent found in 2011.

The proportion of current smokers was higher for males than for females. Smoking rates declined with increasing education and income. Smoking rates by age increased through age 35-44 years and then declined with each older age group. Only 4.1 percent of respondents age 75 years and older were current smokers.

Adults of a minority race/ethnicity were more likely to smoke than white, non-Hispanic adults. Respondents with household incomes less than \$15,000 reported the highest proportion of current smokers (36.5%).

Link to the *Tobacco Use* chapter (pages 37-40) of the full 2012 BRFSS Report: [Chapter 12, Tobacco Use, BRFSS 2012 Annual Report](#)

Percentage of Adults who are Current and Former Smokers in Iowa, 2012

DEMOGRAPHIC GROUPS	Current Smoker		Former Smoker	
	%	C.I. (95%)	%	C.I. (95%)
TOTAL	18.1	(16.9-19.3)	25.0	(23.8-26.2)
SEX				
Male	19.8	(18-21.6)	29.7	(27.7-31.7)
Female	16.5	(14.9-18.1)	20.6	(19.2-22)
RACE/ETHNICITY				
White/Non-Hispanic	17.7	(16.5-18.9)	26.4	(25.2-27.6)
Non-White or Hispanic	21.5	(16.7-26.3)	12.8	(9.7-16)
AGE				
18-24	17.4	(13.3-21.5)	7.0	(4.5-9.5)
25-34	22.9	(19.2-26.6)	20.0	(16.7-23.3)
35-44	24.1	(20.8-27.4)	17.5	(14.8-20.2)
45-54	20.0	(17.5-22.5)	25.6	(22.7-28.5)
55-64	19.0	(16.6-21.4)	31.1	(28.6-33.6)
65-74	12.5	(10.5-14.6)	44.5	(41.4-47.6)
75+	4.1	(2.8-5.5)	37.3	(34.2-40.4)
EDUCATION				
Less Than H.S.	29.5	(24.2-34.8)	21.0	(16.9-25.1)
H.S. or G.E.D.	21.2	(19-23.4)	28.7	(26.5-30.9)
Some Post-H.S.	19.4	(17.2-21.6)	25.7	(23.5-27.9)
College Graduate	7.0	(5.8-8.2)	20.6	(18.6-22.6)
HOUSEHOLD INCOME				
Less than \$15,000	36.5	(31.4-41.6)	18.5	(15-22)
\$15,000- 24,999	26.0	(22.5-29.5)	27.7	(24.4-31)
\$25,000- 34,999	21.7	(18-25.4)	30.4	(26.5-34.3)
\$35,000- 49,999	15.5	(12.8-18.2)	27.3	(24.2-30.4)
\$50,000- 74,999	14.7	(12-17.4)	27.2	(24.1-30.3)
\$75,000+	11.1	(9.1-13.1)	24.2	(21.8-26.6)

Cigarette Use: 2011

Of all respondents surveyed in 2011, 20.4 percent reported being a current smoker. Unfortunately, trend information is not available due to changes in the BRFSS sample weighting methodology.

The proportion of current smokers was higher for males than for females. Smoking generally declined with increasing age, education, and income. People of minority race/ethnicity had a higher proportion of smokers. Respondents with household incomes less than \$15,000 reported the highest proportion of current smokers (38.6%). Only 3.9 percent of respondents age 75 years and older were current smokers.

Link to the *Tobacco Use* chapter (pages 54-58) of the full 2011 BRFSS Report: [Chapter 16, Tobacco Use, BRFSS 2011 Annual Report](#)

Percentage of Adults who are Current and Former Smokers in Iowa, 2011

DEMOGRAPHIC	Current Smoker		Former Smoker	
GROUPS	%	C.I. (95%)	%	C.I. (95%)
TOTAL	20.4	(19.2-21.6)	25.0	(23.8-26.2)
SEX				
Male	22.2	(20.2-24.2)	29.4	(27.4-31.4)
Female	18.6	(17-20.2)	20.9	(19.5-22.3)
RACE/ETHNICITY				
White/Non-Hispanic	19.9	(18.5-21.3)	26.0	(24.8-27.2)
Non-White or Hispanic	26.6	(21.5-31.7)	14.3	(10.5-18.1)
AGE				
18-24	27.1	(22.4-31.8)	5.5	(3.3-7.7)
25-34	27.2	(23.5-30.9)	18	(14.9-21.1)
35-44	24.1	(20.6-27.6)	21.5	(18.4-24.6)
45-54	22.4	(19.7-25.1)	23.4	(20.7-26.1)
55-64	18.0	(15.6-20.4)	35.3	(32.4-38.2)
65-74	10.2	(7.9-12.5)	45.7	(42.3-49)
75+	3.9	(2.5-5.4)	35.7	(32.5-38.9)
EDUCATION				
Less Than H.S.	34.3	(28.6-40)	23.7	(19.2-28.2)
H.S. or G.E.D.	23.8	(21.6-26)	27.7	(25.5-29.9)
Some Post-H.S.	20.5	(18.3-22.7)	25.8	(23.6-28)
College Graduate	8.7	(7.3-10.1)	20.6	(18.6-22.6)
HOUSEHOLD INCOME				
Less than \$15,000	38.6	(33.3-43.9)	20.3	(16.2-24.4)
\$15,000- 24,999	27.4	(23.9-30.9)	26.7	(23.4-30)
\$25,000- 34,999	25.7	(21.4-30)	26.9	(23-30.8)
\$35,000- 49,999	23.4	(19.9-26.9)	27.9	(24.6-31.2)
\$50,000- 74,999	15.8	(13.1-18.5)	29.2	(25.9-32.5)
\$75,000+	9.5	(7.7-11.3)	24.5	(22.1-26.9)

Adult Smokeless Tobacco Use

2011 through 2014

Iowa Behavioral Risk Factor Surveillance System (BRFSS)

Definition of current smokeless tobacco use:

The Behavioral Risk Factor Surveillance System (BRFSS) defines current smokeless tobacco use as use every day or some days at the time of being interviewed.

Notes:

Unlike for cigarette use, the BRFSS does not collect information annually on former smokeless tobacco use. Socio-demographic breakout groups may be less detailed than those in the previous tables on adult cigarettes use prevalence due to lower adult use rates for smokeless tobacco. Suppressed rates (cell value of na (not available)) indicate that the sample size or rate of use was too small to accurately provide an estimate for that breakout group. All rates presented are crude rates per 100 population.

Smokeless Tobacco Use: 2014

Of all adult lowans in 2014, 5.1 percent reported being a current smokeless tobacco user. This is an increase from the 4.9 percent found in 2013.

The rate of current smokeless tobacco use was much higher among males than females. More than ten percent of men reported being current smokeless tobacco users, compared to less than one percent of women. The men’s use rate in 2014 increased slightly from the 9.5 percent found in 2013.

Smokeless tobacco use generally declined with increasing age and education both among adults overall and among men.

Comparing all adults by income level, those with the lowest income were found to have the highest smokeless tobacco use rate. The same pattern was seen among men, with those of the lowest income having the highest smokeless tobacco use rate.

Percentage of Adults who are Current Smokeless Tobacco Users Overall and Men, 2014

DEMOGRAPHIC GROUPS	Current Smokeless Tobacco User			
	All Adults		Men Only	
	%	C. I. (95%)	%	C. I. (95%)
TOTAL	5.1	4.4 - 5.9		
SEX				
Male	9.9	8.4 - 11.4	9.9	8.5 - 11.4
Female	0.5	0.2 - 0.8		
RACE/ETHNICITY				
White/Non-Hispanic	5.3	4.5 - 6.1	10.4	8.8 - 11.9
Non-white or Hispanic	na		na	
AGE				
18-24	9.1	5.9 - 12.3	17.7	11.9 - 23.6
25-34	5.7	3.6 - 7.9	10.4	6.5 - 14.3
35-44	7.4	5.2 - 9.7	14.5	10.1 - 18.9
45-54	5.2	3.6 - 6.7	9.5	6.5 - 12.4
55-64	3.4	2.3 - 4.5	6.1	4.1 - 8.1
65+	1.9	1.2 - 2.5	3.8	2.4 - 5.1
EDUCATION				
Less than H.S.	7.1	3.6 - 10.6	15.1	8.2 - 22.1
High School	7.1	5.6 - 8.5	12.4	9.8 - 14.9
Some Post H.S.	4.8	3.5 - 6.1	10.1	7.4 - 12.9
College Graduate	2.3	1.5 - 3.1	4.6	2.9 - 6.2
HOUSEHOLD INCOME				
Less than \$20,000	6.5	4.1 - 8.5	13.6	8.4 - 18.7
\$20,000 \$49,999	4.9	3.7 - 6.1	9.3	7.0 - 11.7
\$50,000 \$74,999	5.3	3.3 - 7.3	9.6	6.0 - 13.2
\$75,000+	6.1	4.5 - 7.7	10.8	8.0 - 13.6

Smokeless Tobacco Use: 2013

Of all adult Iowans in 2013, 4.9 percent reported being a current smokeless tobacco user. This was an increase from the 4.4 percent found in 2012.

The rate of current smokeless tobacco user was much higher among males than females. Almost ten percent of men reported being a current smokeless tobacco user, compared to less than one percent of women. (An exact use rate estimate for women cannot be provided due to small sample size.) The men's use rate in 2013 of 9.9 percent was an increase from the 8.7 percent found in 2012.

For adults overall and for men in particular, smokeless tobacco use generally declined with increasing age and education. The exception was that both among all adults and among men, age-specific smokeless use rates were highest among those age 35-44 years.

In 2013, there was no consistent pattern of decrease in use rates with increasing income level.

Percentage of Adults who are Current Smokeless Tobacco Users Overall and Men, 2013

DEMOGRAPHIC GROUPS	Current Smokeless Tobacco User			
	All Adults		Men Only	
	%	C. I. (95%)	%	C. I. (95%)
TOTAL	4.9	4.1 - 5.6		
SEX				
Male	9.5	8.0 - 10.9	9.5	8.0 - 10.9
Female	na			
RACE/ETHNICITY				
White/Non-Hispanic	5.1	4.5 - 6.1	9.9	8.3 - 11.4
Non-white or Hispanic	na		na	
AGE				
18-24	7.2	4.1 - 10.2	13.5	2.8 - 19.1
25-34	6.0	3.9 - 8.1	10.7	1.9 - 14.4
35-44	7.9	5.5 - 10.4	15.3	2.3 - 19.9
45-54	5.4	3.7 - 7.0	10.2	1.6 - 13.4
55-64	2.8	1.7 - 3.9	5.2	1.0 - 7.2
65+	1.8	1.1 - 2.4	3.9	0.8 - 5.4
EDUCATION				
Less than H.S.	6.6	4.7 - 12.8	15.1	8.3 - 22.1
High School	5.7	4.5 - 7.1	10.2	7.9 - 12.5
Some Post H.S.	4.0	2.8 - 5.2	8.7	6.2 - 11.2
College Graduate	3.4	2.4 - 4.5	6.7	4.6 - 8.9
HOUSEHOLD INCOME				
Less than \$20,000	3.6	1.8 - 5.5	7.2	3.2 - 11.2
\$20,000 - \$49,999	5.7	4.3 - 7.0	10.4	8.0 - 12.9
\$50,000 - \$74,999	5.0	3.2 - 6.8	9.6	6.2 - 12.9
\$75,000+	5.7	4.0 - 7.4	10.4	7.4 - 13.5

Smokeless Tobacco Use: 2012

Of all adult Iowans in 2012, 4.4 percent reported being a current smokeless tobacco user. This is a slight increase from the 4.2 percent found in 2011.

The rate of current smokeless tobacco use was much higher among males than females. Almost nine percent of men reported being a current smokeless tobacco user, compared to less than one percent of women. (An exact use rate estimate for women cannot be provided due to small sample size.) The men's use rate in 2012 of 8.7 percent was about the same as that in 2011, 8.6 percent.

For adults overall and for men, smokeless tobacco use generally declined with increasing age. The exception being among those who were age 25-34 years whose rates were the highest among all age groups.

Rates of use by level of education were seen to remain relatively high both for adults overall and for men who had less than a college degree relative those with four-year degrees or more education.

There was no consistent pattern of decreasing use rates with increasing income level in 2012.

Percentage of Adults who are Current Smokeless Tobacco Users Overall and Men, 2012

DEMOGRAPHIC GROUPS	Current Smokeless Tobacco Use r			
	All Adults		Men Only	
	%	C. I. (95%)	%	C. I. (95%)
TOTAL	4.4	3.7 - 5.1		
SEX				
Male	8.7	7.3 - 10.0	8.7	7.3 - 10.0
Female	na			
RACE/ETHNICITY				
White/Non-Hispanic	4.4	3.7 - 5.2	8.8	7.3 - 10.3
Non-white or Hispanic	na		na	7.3 - 10.3
AGE				
18-24	6.8	3.8 - 9.9	12.5	6.8 - 18.2
25-34	7.2	4.9 - 9.4	13.9	9.6 - 18.2
35-44	6.2	4.2 - 8.2	12.0	8.2 - 15.8
45-54	3.9	2.5 - 5.2	7.7	5.1 - 10.3
55-64	2.3	1.4 - 3.2	4.1	2.4 - 5.9
65+	1.4	0.8 - 2.0	3.2	1.9 - 4.6
EDUCATION				
Less than H.S.	5.1	2.2 - 7.6	9.0	2.9 - 15.0
High School	5.5	4.2 - 6.8	10.4	7.9 - 12.8
Some Post H.S.	4.4	3.2 - 5.6	9.6	7.0 - 12.1
College Graduate	2.4	1.6 - 3.2	4.7	3.1 - 6.4
HOUSEHOLD INCOME				
Less than \$20,000	2.8	1.3 - 4.3	6.0	2.6 - 9.4
\$20,000 - \$49,999	5.4	4.0 - 6.7	10.1	7.7 - 12.6
\$50,000 - \$74,999	5.0	3.1 - 7.0	10.0	6.2 - 13.9
\$75,000+	4.5	3.0 - 6.0	7.9	5.3 - 10.5

Smokeless Tobacco Use: 2011

Of all adult Iowans in 2011, 4.2 percent reported being a current smokeless tobacco user. (Due to change in BRFSS sampling methodology beginning in 2011, the smokeless tobacco use rate in 2011 cannot be directly compared to the use rates in 2010.)

The rate of current smokeless tobacco use was much higher among males than females. About eight percent of men reported being a current smokeless tobacco user, compared to less than one percent of women. (An exact use rate estimate for women cannot be provided due to small sample size.)

For adults overall and for men in particular, smokeless tobacco use generally declined with increasing age and education. However, both for adults overall and men, age-specific smokeless use rates were highest among those age 25-44 years old. And both for adults overall and men, educational attainment-specific smokeless tobacco use rates were highest among those with no more than high school diploma relative to those with more and those with less education.

There was no consistent pattern of decreasing use rates with increasing income level in 2011.

Percentage of Adults who are Current Smokeless Tobacco Users Overall and Men, 2011

DEMOGRAPHIC GROUPS	Current Smokeless Tobacco User			
	All Adults		Men Only	
	%	C. I. (95%)	%	C. I. (95%)
TOTAL	4.2	3.5 - 4.8		
SEX				
Male	8.1	6.8 - 9.3	8.1	6.8 - 9.3
Female	na			
RACE/ETHNICITY				
White/Non-Hispanic	4.3	3.7 - 5.0	8.6	7.2 - 9.9
Non-white or Hispanic	na		na	
AGE				
18-24	6.2	3.5 - 8.9	10.8	6.0 - 15.6
25-34	7.2	4.9 - 9.1	12.9	9.0 - 16.7
35-44	6.5	4.5 - 8.4	12.5	8.8 - 16.2
45-54	3.5	2.4 - 4.6	6.5	4.4 - 8.7
55-64	1.5	0.8 - 2.2	2.7	1.4 - 4.1
65+	1.6	1.0 - 2.3	3.9	2.3 - 5.4
EDUCATION				
Less than H.S.	4.9	2.2 - 7.6	8.1	3.5 - 12.6
High School	5.9	4.6 - 7.2	10.8	8.5 - 13.2
Some Post H.S.	3.5	2.5 - 4.5	7.6	5.4 - 9.8
College Graduate	2.4	1.6 - 3.2	4.7	3.1 - 6.2
HOUSEHOLD INCOME				
Less than \$20,000	3.5	1.9 - 5.2	6.6	3.3 - 9.9
\$20,000 - \$49,999	4.2	3.1 - 5.3	8.3	6.1 - 10.4
\$50,000 - \$74,999	4.8	3.1 - 6.5	9.2	6.0 - 12.5
\$75,000+	4.6	3.3 - 5.9	7.8	5.6 - 10.0