

Mississippi Association of Public Health
Physicians
May 2, 2016

Emily McClelland, M.S.



Overview

- Trends in youth smoking
- Trends in adult smoking
- Smoke-free communities
- Economic impacts of tobacco
- Policy directions

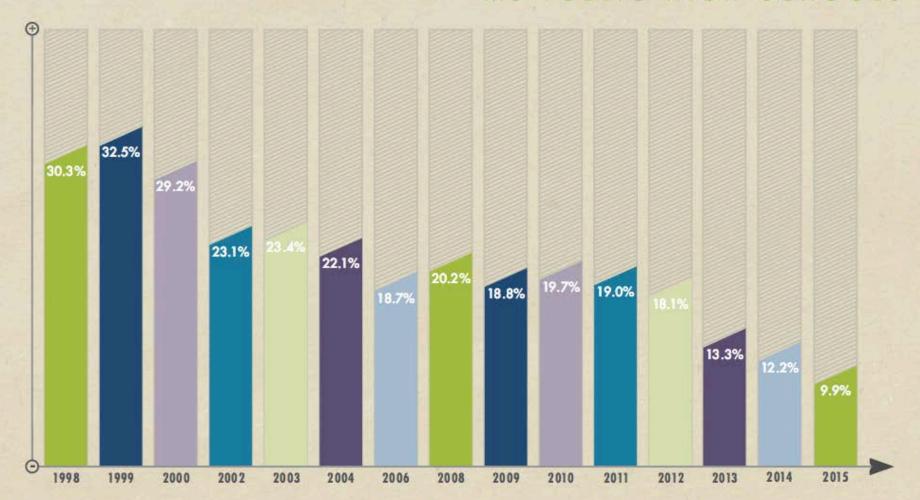


Burden of Tobacco in MS

- \$1.5 billion Estimated Direct Medical Costs from Smoking
- \$360 million Indirect Absenteeism Effects
- \$1.1 billion Indirect Presenteeism Effects
- 68,000 children alive now in MS will die prematurely from smoking
- \$128.6 million Amount tobacco industry spends on marketing in MS

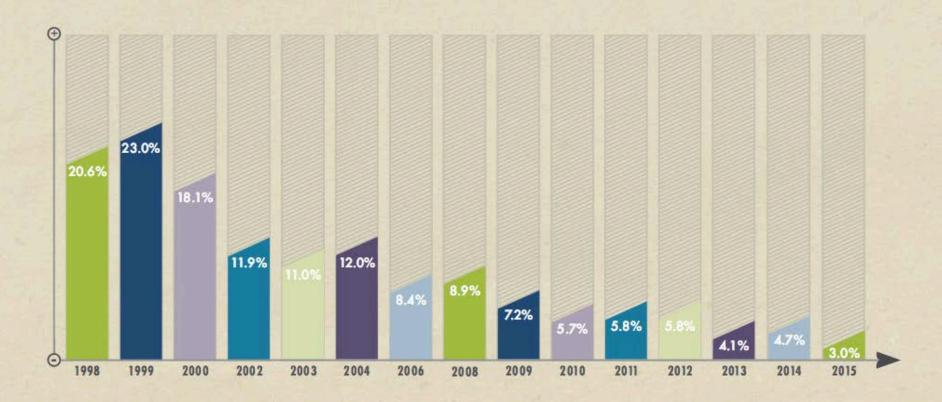


Current cigarette smoking MS PUBLIC HIGH SCHOOLS



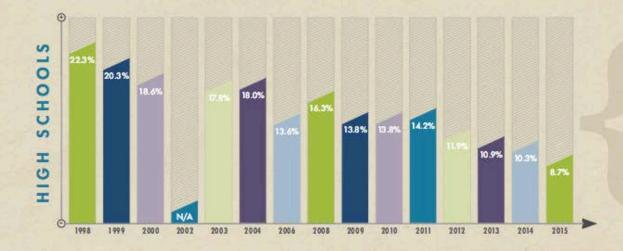
- * In 2015, 13,508 Mississippi public high school students were current smokers.
- * The prevalence of current smoking has decreased by 67% since 1998, leading to 27,834 fewer young smokers.
- * In the past year, the prevalence of current smoking has not changed significantly.

CUrrent cigarette smoking



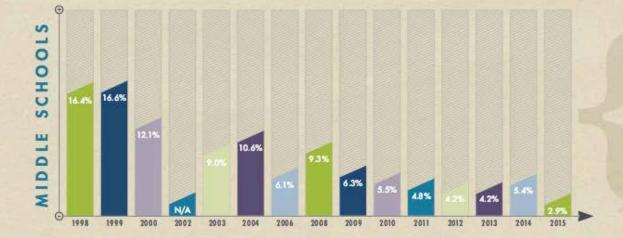
- In 2015, 3,362 Mississippi public middle school students were current smokers.
- * The prevalence of current smoking has decreased by 85% since 1998, leading to 19,724 fewer young smokers.
- * In the past year, the prevalence of current smoking has not changed significantly.

CUrrent cigar smoking MISSISSIPPI PUBLIC SCHOOLS





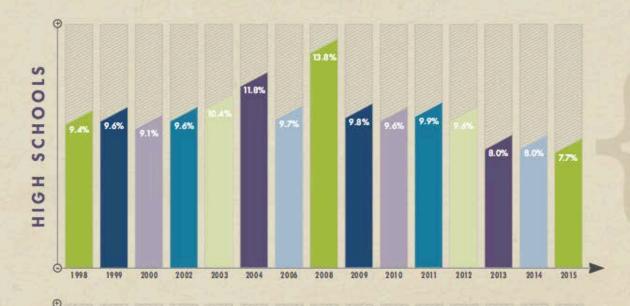
- The prevalence of current cigar smoking has decreased by 61% since 1998, leading to 18,556 fewer young cigar smokers.
- In the past year, the prevalence of current cigar smoking has not changed significantly.



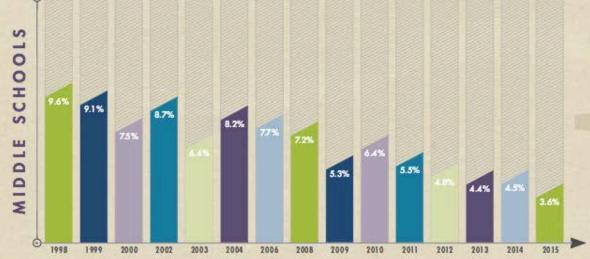
- In 2015, 3,250 Mississippi public middle school students were current cigar smokers.
- The prevalence of current cigar smoking has decreased by 82% since 1998, leading to 15,130 fewer young cigar smokers.
- In the past year, the prevalence of current cigar smoking has not changed significantly.

current smokeless tobacco use

MISSISSIPPI PUBLIC SCHOOLS



- In 2015, 10,506 Mississippi public high school students were current SLT users.
- Since 1998, the prevalence of current SLT use has not changed significantly.
- In the past year, the prevalence of current SLT use has not changed significantly.



- In 2015, 4,035 Mississippi public middle school students were current SLT users.
- The prevalence of current SLT use has decreased by 63% since 1998, leading to 6,724 fewer young SLT users.
- In the past year, the prevalence of current SLT use has not changed significantly.

electronic cigarette use MS PUBLIC HIGH SCHOOLS

CURRENT USE {2010-2015}

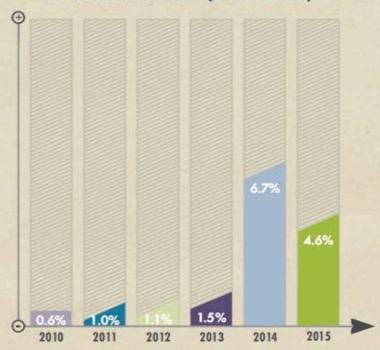


Changes between 2013
and 2014 in the wording
and placement of questions
about the use of e-cigarettes
might have had an impact on
reported use of these products.



electronic cigarette use MS PUBLIC MIDDLE SCHOOLS

CURRENT USE {2010-2015}

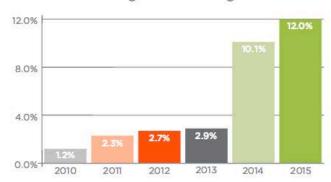


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mississippi and youth e-cigarettes

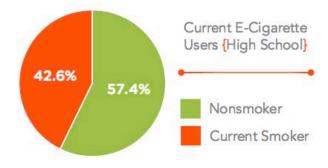
Current E-Cigarette Use | High School



Mirroring national trends,¹ e-cigarette use among Mississippi youth increased substantially from 2010 to 2014.

More than half of current e-cigarette users are not cigarette smokers

- More than half of current e-cigarette users are not cigarette smokers.
- Although it is not clear whether increases in e-cigarette use occurred in youth who were diverted from smoking cigarettes or in youth who were not at risk for smoking,² recent studied have found that teens who had not tried cigarettes before they starting using e-cigarettes were more likely later to try cigarettes than teens who did not use e-cigarettes ³⁻⁵



Source: Mississippi Youth Tobacco Survey



CURRENT SMOKING

cigarette smoking among adults: 2014

ANK	STATE	PREVALENCE	TOMER CI	UHE C
	WEST VIRGINIA	26.7%	25.2%	28.1%
2	KENTUCKY	26.2%	24.7%	27.7%
3	ARKANSAS	24.7%	22.7%	26.7%
4	TENNESSEE	24.2%	22.3%	26.1%
5	LOUISIANA	24.0%	22.6%	25.4%
6	MISSIS SIPPI	23.0%	21.0%	24.9%
7	INDIANA	22.9%	21.8%	24.1%
8	SOUTH CAROUNA	21.5%	20.4%	22.7%
9	MICHIGAN	21.2%	20.0%	22.5%
10	OKLAHOMA	21.1%	19.9%	22.3%
11	ALABAMA	21.1%	19.8%	22.5%
12	OHIO	21.0%	19.7%	22.3%
13	MISSOURI	20.6%	19.2%	22.1%
1.4	ALASKA	19.9%	18.2%	21.6%
15	NORTH DAKOTA	19.9%	18.4%	21.5%
16	PENNSYLVANIA	19.9%	18.8%	21.1%
17	DELAWARE	19.9%	17.9%	21.8%
18	MONTANA	19.9%	18.5%	21.4%
19	WYOMING	19.5%	17.6%	21.4%
20	VIRGINIA	19.5%	18.4%	20.7%
21	MAINE	19.3%	18.1%	20.5%
22		- Control of the cont	17.7%	20.5%
22 23	NEW MEXICO NORTH CAROLINA	19.2% 19.1%		20.5%
24	NORTH CAROLINA SOUTH DAKOTA	18.6%	17.9% 16.9%	20.3%
25		18.5%	17.3%	
	IOWA	J. State of the last of the la		19.7%
26	KANSAS	18.1%	172%	18.9%
27	FLORIDA	17.7%	16.5%	18.8%
28	NEW HAMPSHIRE	17.5%	16.0%	19.0%
29	GEORGIA	17.4%	15.9%	18.8%
30	WISCONSIN	17.4%	16.0%	18.7%
31	NEBRASKA	17.3%	16.5%	18.2%
32	NEVADA	17.0%	15.0%	19.0%
33	OREGON	17.0%	15.5%	18,4%
34	ILLINOIS	16.5%	15.1%	18.0%
35	ARIZONA	16.5%	15.4%	17.6%
36	WASHINGTON D.C.	16.4%	14.2%	18.6%
37	VERMONT	16.4%	15.2%	17.6%
38	MINNESOTA	16.3%	15.6%	17.0%
39	RHODE ISLAND	16.3%	14.8%	17.7%
40	IDAHO	15.9%	14.4%	17.4%
41	COLORADO	15.7%	14.8%	16.6%
42	CONNECTICUT	15.4%	14.2%	16.7%
43	WASHINGTON	15.3%	14.3%	16.4%
44	NEW JERSEY	15.1%	14.1%	16.1%
45	MASSACHUSETTS	14.7%	13.7%	15.7%
46	MARYLAND	14.6%	13.4%	15.9%
1093	ATTROGRAMMATICAL TO THE PARTY OF THE PARTY O			
47	TEXAS	14.5%	13.6%	15.5%
48	NEW YORK	14.4%	13.3%	15.5%
49	HAWAII	14.1%	13.0%	
50	CALIFORNIA	12.9%	11.9%	13.8%
51	UTAH	9.7%	9.0%	10.3%

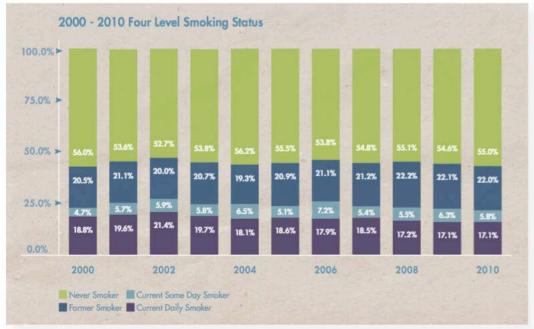
- Mississippi ranks 6th among the 50 states and Washington D.C. in the prevalence of current smoking
- SOURCE
- among adults. State rankings, however, should be interpreted with caution. Rank differences do not necessarily reflect meaningful differences between states.

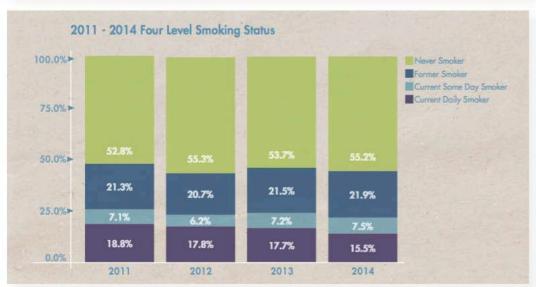
- Mississippi ranks 6th in current smoking among adults
- 23.0% of Mississippi adults are current smokers



TOBACCO & NICOTINE USE

MISSISSIPPI | ADULTS

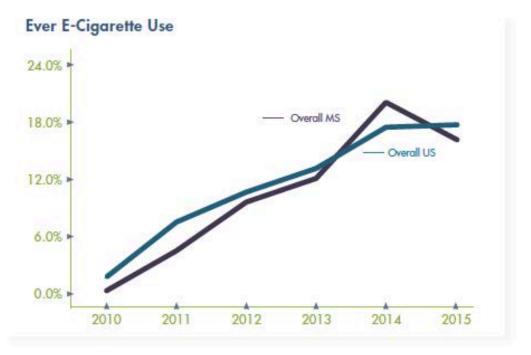


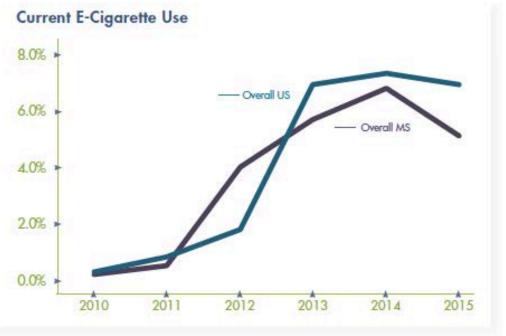


- "Have you smoked at least 100 cigarettes in your life?"
- "Do you now smoke cigarettes every day, some days, or not at all?"

Source: Behavioral Risk Factor Surveillance System (BRFSS)









Sources: National and Mississippi Social Climate Survey of Tobacco Control



South a ven WALNUT Corinth FARMINGTON
IERNANDO HOLLY SPRINGS
TUKA
Senatobia booneville relars new albany BALDWYN
Point sledge Oxford Saltillomantachie Pontotoc verona Nettleton okolona Amory anguilla Louiseeden Jackson Brandon Meridian forest Crystal Springs man a Fayette W E S S O N Georgetown brookhaven monticello COLLINSELLISVILLE Prentiss

BASSFIELD

SumrallPetal

LUMBERTON

poplarville

hattiesburg LEAKESVILLE
New Augusta

PICAYUNE Moss Point

Diamondhead Pascagoula

state line

Wiggins lucedale

*71 OF WHICH HAVE ORDINANCES
THAT INCLUDE RESTRICTIONS ON
ELECTRONIC CIGARETTES

IN MISSISSIPPI

Partial Smoke-free communities in Mississippi

August 6, 1996 | West

There

- October 2007 | Greenville
- November 15, 2007 | McComb
- January 10, 2008 | Summit
- May 1, 2008 | Gulfport
- July 31, 2008 | Walls
- January 6, 2010 | Columbus

• June 3, 2010 | Goodman

Woodville

CENTREVILLE

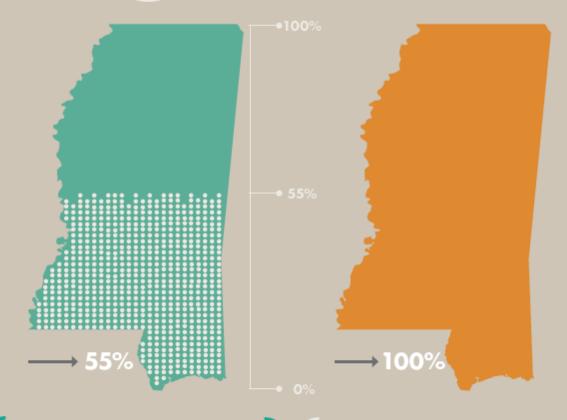
- October 5, 2010 | Rienzi
- June 2011 | Olive Branch
- June 6, 2012 | Vaiden
- July 3, 2014 | Gautier

31.47% of Mississippians are protected



A PATH → TO 100% PROTECTED





As of April 26, 2016, 120 municipalities in Mississippi have implemented comprehensive, smoke-free ordinances. These ordinances protect 31% of Mississippi.

If every Mississippi municipality passed a comprehensive smoke-free ordinance, only 55% of Mississippians would be protected. The rest live in rural areas outside of municipalities.

The only way to protect all Mississippians is to pass a state-wide comprehensive smoke-free law.











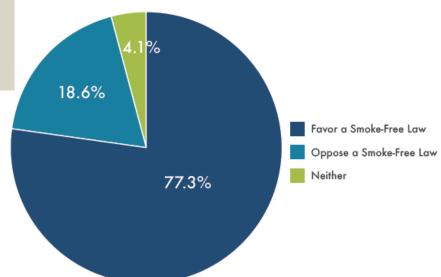


SUPPORT FOR SMOKEFREE AIR APRIL 2016

Results from the most recent Social Climate Survey demonstrate strong support for smoke-free air in Mississippi.

- More than three-quarters of Mississippi adults (77.3%) favor a state law prohibiting smoking in most indoor places, including workplaces, public buildings, offices, restaurants, & bars.
 - Only 18.6% of Mississippi adults oppose a state law.
 - 61.9% of smokers support a state law as opposed to only 32.3% who are opposed.
 - Republicans (78.3%) and Democrats (80.0%) are equally supportive of a state law.

Would you favor or oppose a law in Mississippi prohibiting smoking in most public places, including workplaces, offices, restaurants, and bars?



77.3% of
Mississippi
adults favor a
state-wide
smoke-free
law





Economic Effects of Smoke-Free Ordinances in Mississippi Communities:

AN EXAMINATION OF TOURISM & ECONOMIC DEVELOPMENT TAX REVENUES

LOCATION	DATE OF ORDINANCE	% CHANGE IN SMOKE- FREE COMMUNITIES	AVERAGE % CHANGE (DURING THE SAME PERIOD) IN THE AGGIEGATED NO- CREIN ANCE COMPARI- SON COMMUNITIES	DIFF ER SN CE
AB ER DEEN	3/22/2007	6.66%	0.41%	6.25%
BALDWYN	7/5/2013	-3.68%	0.67%	-4.35%
BATESVILLE	3/4/2010	9.27%	3.77%	5.50%
CANTON	1/19/2012	15.91%	3.45%	12.46%
CLINTON	8/14/2008	32.03%	-4.81%	36.84%
CORINTH	11/6/2007	-2.93%	1.54%	-4.47%
FLORENCE	8/19/2012	4.43%	1.14%	3.29%
FLOWOOD	5/4/2011	5.95%	-2.34%	8.29%
GREENWOOD	8/16/2007	4.16%	5.42%	-1.25%
GRENADA	4/8/2009	3.29%	-5.95%	9.24%
HATTIESBURG	1/1/2007	-3.31%	-0.71%	-2.60%
INDIANOLA	11/7/2012	-6.35%	0.95%	7.30%
JACKSON	7/1/2010	-2.96%	8.77%	-11.73%
KOSCIUSKO	11/1/2007	-16.86%	1.54%	-18.40%
LAUREL	12/4/2008	5.60%	-4.84%	10.44%
MAGEE	11/19/2013	12.66%	-3.58%	16.25%
MOSS POINT	6/14/2012	2,49%	2.16%	0.33%
NEW ALBANY	12/1/2011	3.95%	-0.11%	4.06%
OXFORD	11/16/2006	-0.44%	-5.80%	5.37%
PASCAGOULA	7/18/2013	-16.38%	5.34%	-21.72%
PEARL	9/1/2010	4.81%	2.14%	2.68%
PICAYUNE	7/17/2014	6.51%	3.64%	10.15%
PONTOTOC	5/1/2008	32.64%	0.56%	32.08%
RIDGELAND	7/19/2007	8.30%	2.89%	5.40%
STA RKVILLE	5/20/2006	5.14%	472%	9.86%
TUPELO	10/5/2006	5.58%	-5.91%	11.49%
TOTAL		4.48%	-0.06%	4.55%

[&]quot;STUDY PERIOD: 12 MONTHS BEFORE THE ORDINANCE AND 12 MONTHS AFTER THE ORDINANCE

This table presents the inflation-adjusted pre- and post- ban data for the Mississippi communities that have comprehensive smoke-free ordinances, collect a TED tax, and have at least 12 months of post-ban data. The percentage change in revenue for these towns ranges from -17% to 33%. As other researchers have noted, this wide range reflects the volatile nature of the restaurant and hospitality industries, due to seasonality and turnover in businesses. Also, the largest changes occurred in the smaller communities.

For the communities with smoke-free ordinances as a whole, inflation-adjusted TED tax revenue were 4.5% greater in the 12 months following the enactment of a smoke-free ordinance. Conversely, there was no meaningful change in TED tax revenue in the aggregated control communities (-0.06%).

On average, hospitality revenue increased by 4.48% following implementation of a smoke-free ordinance

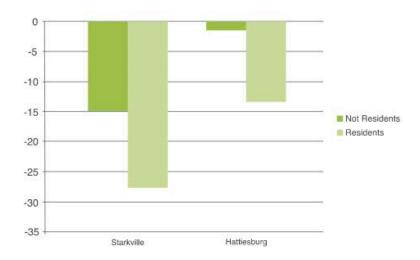


The Starkville & Hattiesburg Heart Attack Studies

REDUCTIONS IN HEART ATTACK ADMISSIONS FOLLOWING THE IMPLEMENTATION OF LOCAL SMOKE-FREE ORDINANCES



- STARKVILLE | 27.7% REDUCTION IN HEART ATTACK
 ADMISSIONS, COST SAVINGS OF \$288, 270.
- HATTIESBURG | 13.4% REDUCTION IN HEART ATTACK
 ADMISSIONS, COST SAVINGS OF \$2,367,909.



Starkville implemented a comprehensive smoke-free ordinance that prohibited smoking inside of all indoor public places on May 20, 2006. Seven months later, Hattiesburg implemented a similar comprehensive ordinance on January 1, 2007.

Findings from controlled observational studies demonstrate that hospital admissions for heart attacks in both Starkville and Hattiesburg decreased substantially following the implementation of the smoke-free ordinances. Moreover, the observed decrease in these communities was much higher than that observed in control communities that did not have a smoke-free ordinance.

In Starkville and Hattiesburg, heart attack admission rates decreased following implementation of smoke-free ordinances



STATE CIGARETTE EXCISE TAX

rates & rankings: 2016



Mississippi ranks 38th, with 36 states and Washington D.C. placing a higher state tax on cigarettes. Moreover, the 68 cent tax in Mississippi is substantially lower than the average state cigarette tax of \$1.61.

SOURCE

State Cigarette Excise Tax Rates and Rankings, Campaign for Tobacco-Free Kids, 2016

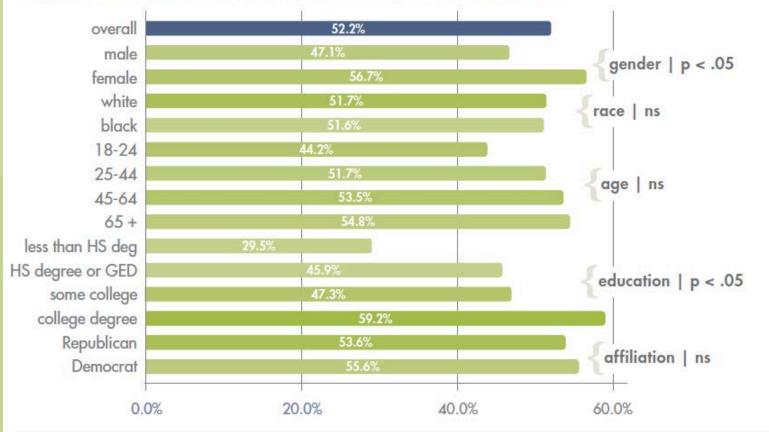
RANK	STATE	CIGARETTE TAX	
1	NEW YORK	\$4.35	
2	RHODE ISLAND	\$3.75	
3	CONNECTICUT	\$3.65	
4	MASSACHUSETTS	\$3.51	
5	HAWAII	\$3.20	
6	VERMONT	\$3.08	
	WASHINGTON	\$3.03	
8	MINNESOTA	\$3.00	
9	WASHINGTON D.C.	\$2.90	
10	NEW JERSEY	\$2.70	
11	WISCONSIN	\$2.52	
12	ALASKA	\$2.00	
12	ARIZONA	\$2.00	
12	MAINE	\$2.00	
12	MARYLAND	\$2.00	
12	MICHIGAN	\$2.00	
17	ILLINOIS	\$1.98	
18	NEVADA	\$1.80	
19	NEW HAMPSHIRE	\$1.78	
20	MONTANA	\$1.70	
20	UTAH	\$1.70	
22	NEW MEXICO	\$1.66	
23	DELAWARE	\$1.60	
23	ОНЮ	\$1.60	
23	PENNSYLVANIA	\$1.60	
26	SOUTH DAKOTA	\$1.53	
27	TEXAS	\$1.41	
28	IOWA	\$1.36	
29	FLORIDA	\$1.34	
30	OREGON	\$1.32	
31	KANSAS	\$1.29	
32	ARKANSAS	\$1.15	
33	LOUISIANA	\$1.08	
34	OKLAHOMA	\$1.03	
35	INDIANA	\$1.00	
36	CALIFORNIA	\$0.87	
37	COLORADO	\$0.84	
38	ALABAMA	\$0.68	
38	MISSISSIPPI	\$0.68	
40	NEBRASKA	\$0.64	
41	TENNESSEE	\$0.62	
42	KENTUCKY	\$0.60	
42	WYOMING	\$0.60	
44	IDAHO	\$0.57	
44	SOUTH CAROLINA	\$0.57	
46	WEST VIRGINIA	\$0.55	
47	450500000000000000000000000000000000000	403004	
48	NORTH CAROLINA	\$0.45	
	NORTH DAKOTA	\$0.44	
49	GEORGIA	\$0.37	
50	VIRGINIA	\$0.30	
51	MISSOURI	\$0.17	

Mississippi
 Ranks 38th in
 state cigarette
 excise tax

- Mississippi's tax
 - = 68 cents
- Average state tax= \$1.61







Source: 2015 Mississippi Social Climate Survey of Tobacco Control | Mississippi Tobacco Data



MedicaidCosts SecondhandSmoke

	ATTRIBUTABLE POPULATION RISK	TOTAL COSTS	COSTS ATTRIBUTABLE TO EXPOSURE TO SECONDHAND SMOKE	
POPULATION - BIRTH TO AGE 17				
LOW BIRTH WEIGHT CODES -	18.0%	\$85,240,444	\$15,343,280	
ICD CODES THAT BEGIN WITH 765	10.070	400/240/444	\$10/0-10/200	
ACUTE LOWER RESPIRATORY ILLNESS				
(BIRTH TO AGE 5 ONLY) - ICD CODES	25.0%	\$28,551,853	\$7,137,963	
THAT BEGIN WITH 480-488, 466				
OTITIS MEDIA AND MIDDLE EAR EFFUSION -	14.0%	\$16,501,901	\$2,310,266	
ICD CODES THAT BEGIN WITH 382	14.0%			
ASTHMA - ICD CODES THAT BEGIN WITH 493	35.0%	\$28,344,206	\$9,920,472	
POPULATION - AGES 18+				
HEART ATTACKS AND OTHER HEART DISEASES -	6.9%	\$12,149,244	\$838,298	
ICD CODES THAT BEGIN WITH 410	0.7 /6			
LUNG CANCER - ICD CODES	4.9%	\$12,204,636	\$598,027	
THAT BEGIN WITH 162	4.7 /0			
		\$182,992,283	\$36,148,306	

SPECIFIED DIAGNOSIS PRESENT IN EITHER THE PRINCIPLE DIAGNOSIS FIELD OR OTHER DIAGNOSIS CODES 1-4 POSITIONS

Raîsing theage of sale for tobacco

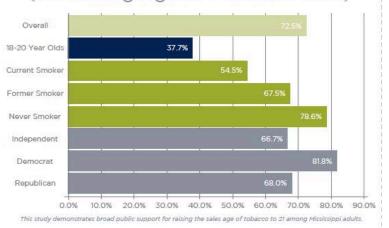
73% of Mississippi Adults support this policy



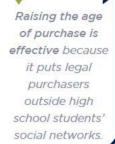


Cities and states across the United States have raised or are considering raising the π age of purchase for tobacco to 21.

Public *Support* among MS Adults {for *Raising Age of Purchase* to 21}



This policy
decreases teen
smoking by
making it harder
to get tobacco
products for
minors.



73.0% of
Mississippi adults
support raising the
age of purchase to
21

 Raising the age of purchase is effective because it puts legal purchasers outside high school students' social networks

Source: Mississippi Social Climate Survey of Tobacco Control



2016 • mississippi tobacco data





April 28, 2016

2016 • mississippi tobacco data



For More Information

Visit mstobaccodata.org

