

SUMMIT COUNTY PUBLIC HEALTH

Population Health Brief:

Impact of "T21" Legislation in Summit County



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Youth Tobacco Use and Estimated Impact of Proposed Legislation

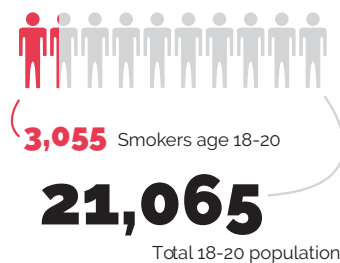
Tobacco use by youth under age 18 is a serious problem in Summit County and throughout the nation. Those who begin using tobacco products at an early age run a significant risk of being a life-long tobacco user. The intent of the proposed "T21" legislation is to help prevent those under age 18 from beginning tobacco use by making it harder to get. Statistics from Summit County's 2013 Youth Risk Behavior Survey make it clear that intervention is necessary:

- **Providing tobacco to minors is both illegal and very easy to do** -- More than one-third (37%) of high school students and 16% of middle school students who smoked said they could purchase the tobacco they used at a store, public event, or a restaurant, bar, or club. Another 25% say they were able to give money to someone else to buy tobacco for them. Direct sales of tobacco to minors is illegal, yet more than half of minors using tobacco are able to get it without much difficulty.
- **Smoking rises with age** -- The percent of middle and high school students who say they smoke rises with each grade level, from just 3% of 7th graders to nearly 20% of 12th graders.

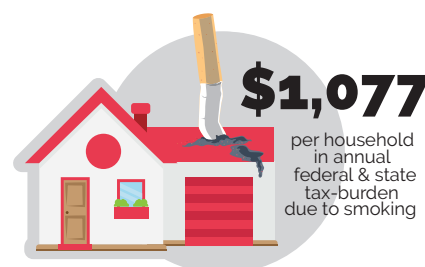
Much speculation has been made of the potential economic impact of prohibiting Summit County residents age 18-21 from legally purchasing tobacco products. However, an analysis of that impact shows that for the 460 tobacco retailers currently doing business in Summit County the impact will be modest, especially in comparison to the significant societal cost imposed by smoking.

- **Limiting tobacco sales to 21 and over will impact a small number of Summit County residents** -- According to the 2016 American Community Survey, there are an estimated 21,065 Summit County residents age 18-20. Of those 21,065 residents, an estimated 15% smoked at least 1 cigarette in the previous 30 days; a total of just 3,055 people.
- **Cigarette retailers receive only about half of cigarette sales revenue** -- Only about half of the cost of a pack of cigarettes (assumed to be just over \$6.00 per pack) can be considered revenue for the retailers who sell them. Nearly \$3.00 of the \$6.00 price per pack is due to federal and state excise taxes, and state and local sales taxes.
- **Total estimated revenues from selling cigarettes to those age 18-20 is modest** -- After subtracting taxes, the total estimated revenue generated by all 18-20 year olds who smoke in Summit County is about \$52,231 per month. Assuming that revenue is divided up evenly among each of the 460 tobacco retailers in Summit County, the total comes out to about \$113 monthly; a little over \$3.73 per day per retailer.
- **The financial burden of smoking is costly to everyone** -- According to the CDC, the annual state and federal tax burden on each Ohio household from smoking-caused government expenditures is \$1,077. Smoking costs Ohio \$5.64 billion in annual health care costs, \$1.72 billion in annual Medicaid costs, and \$5.88 billion in productivity losses.

People in Summit County Age 18-20 Who Smoke



Cost of One Pack Of Cigarettes



Estimated Impact of Prohibiting Cigarette Sales to Summit County Residents Age 18-20

2013 estimated amount smoked in the last 30 days:	Smoking Prevalence			Per Month Totals, Summit County Population Age 18-20					Net revenue per pack less taxes	Net estimated revenue generated by smoking
	2016 Summit County Population Age 18-20	% in each smoking category	Estimated number of cigarettes smoked	Estimated number of cigarette packs smoked	Gross estimated revenue generated by smoking	Cost per pack of cigarettes in Ohio	Federal and state sales and excise taxes per pack			
Didn't smoke	18,009	85.5%	-	-	\$0	\$6.10	\$2.98	\$3.12	\$0	
Less than 1 per day	752	3.6%	11,278	564	\$3,440	\$6.10	\$2.98	\$3.12	\$1,759	
1 per day	595	2.8%	17,865	893	\$5,449	\$6.10	\$2.98	\$3.12	\$2,787	
2-5 per day	1,421	5.3%	117,717	5,886	\$35,904	\$6.10	\$2.98	\$3.12	\$18,364	
6-10 per day	339	1.6%	81,439	4,072	\$24,839	\$6.10	\$2.98	\$3.12	\$12,704	
11-20 per day	148	0.7%	46,633	2,332	\$14,223	\$6.10	\$2.98	\$3.12	\$7,275	
More than 20 per day	100	0.5%	59,882	2,994	\$18,264	\$6.10	\$2.98	\$3.12	\$9,342	
Summit County Total	21,065	100.0%	334,813	16,741	\$102,118	\$6.10	\$2.98	\$3.12	\$52,231	

2013 estimated amount smoked in the last 30 days:	Annual Totals, City of Akron Population Age 18-20		
	Net estimated revenue from cigarette sales	Number of tobacco retailers in Akron	Estimated annual total revenue per retailer
Didn't smoke	\$0	460	\$0
Less than 1 per day	\$21,112	460	\$46
1 per day	\$33,443	460	\$73
2-5 per day	\$220,367	460	\$479
6-10 per day	\$152,454	460	\$331
11-20 per day	\$87,297	460	\$190
More than 20 per day	\$112,098	460	\$244
Summit County Total	\$626,769	460	\$1,363

Assumptions:

- 18-20 year olds' smoking patterns are similar to their high school counterparts; estimated smoking rates by age group came from the Ohio Behavioral Risk Factor Surveillance Survey
- The average cost per pack Ohio is \$6.10
- Each pack contains 20 cigarettes
- Where ranges of cigarettes smoked per month are shown, the midpoint of each range is used to calculate the number smoked
- State taxes of \$1.97 and federal taxes of \$1.01 per pack; taxes make up \$2.98 of total cost
- Assumes all 18-20 year olds can currently purchase legally from a store
- Assumes all revenue is equally distributed among the 460 retailers

Estimated number of 18-20 year olds, Summit County, 2012-2016

Subdivision	Estimate
Akron city	10,258
Barberton city	919
Bath township	489
Boston township	4
Boston Heights village	48
Clinton village	47
Copley township	533

Subdivision	Estimate
Mogadore village	188
Munroe Falls city	123
New Franklin city	578
Northfield village	133
Northfield Center township	76
Norton city	508
Reminderville village	95
Richfield township	170

Subdivision	Estimate
Sagamore Hills township	391
Silver Lake village	126
Springfield township	606
Stow city	1,188
Tallmadge city	575
Twinsburg city	607
Twinsburg township	67
Total	21,100