

Data Sources for County Pages Tobacco Prevention and Cessation

Adult smoking prevalence

Indiana prevalence: Behavioral Risk Factor Surveillance System (BRFSS), 2021.

United States prevalence: Median of 2021 BRFSS adult smoking prevalence estimates for all 50 states and the District of Columbia. (Available at <https://www.cdc.gov/brfss/brfssprevalence/>).

County-level prevalence: Indiana Behavioral Risk Factor Surveillance System (BRFSS), 2015-2019.

Note: County-level adult smoking prevalence estimates were calculated using combined landline and cell phone BRFSS data from 2015-2019. The county level estimates are generated using a weighting variable that is specific to that county and reflects the county's demographics. Due to a small number of respondents in some counties, select counties were combined to generate stable estimates. Because the county-level adult smoking prevalence estimates are based on different years of data (2015-2019) than the state and national estimates (2021 only), the county-level estimates are not directly comparable to the state or national data.

Estimated number of adult smokers

Calculated using the following formulas:

Indiana: (Indiana 2020 adult population from the U.S. Census)*(Statewide adult smoking prevalence from 2021 BRFSS)

County-level: (County 2020 adult population from the U.S. Census)*(County-level adult smoking prevalence from 2015-2019 BRFSS)

Lung cancer death rates

County-level and Indiana rates: Indiana State Cancer Registry (ISCR). ISCR Statistics Report Generator. Accessed at <http://www.in.gov/isdh/24360.htm>

United States rate: Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 1999-2019 on CDC WONDER Online Database. Data are from the Multiple Cause of Death Files, 1999-2019, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Accessed at <https://wonder.cdc.gov/cancer.html>

Note: County, state, and U.S. Rates are based on pooled data from 2015-2019. Rates are per 100,000 population and age-adjusted to the 2000 U.S. standard population. County, statewide and United States data include deaths from malignant neoplasms of the lung and bronchus.

Cardiovascular disease death rates

Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 1999-2019 on CDC WONDER Online Database. Data are from the Multiple Cause of Death Files, 1999-2019, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Accessed at <https://wonder.cdc.gov/>

Note: Rates are based on pooled data from 2015-2019. Rates are per 100,000 population and age-adjusted to the 2000 U.S. standard population.

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Asthma-related emergency department visit rates

Indiana State Department of Health. Chronic Respiratory Disease Section. 2015 Indiana County Age-Adjusted Emergency Department and Hospitalization Rates. Accessed at <https://www.in.gov/health/files/2015%20County%20ED%20and%20Hosp%20aa%20Rates.pdf>

Note: Rates are based on 2015 emergency department visit data. Rates are per 10,000 population and age-adjusted to the 2000 U.S. standard population. Rates are suppressed when there are twenty or fewer emergency department visits.

Smoking during pregnancy and births affected by smoking

Indiana Department of Health. *Indiana Natality Dataset, 2020*. Available on the Indiana Department of Health Statistics Explorer at https://gis.in.gov/apps/isdh/meta/stats_layers.htm?q=VAR_ID%20like%20%27BIRTH%25%27&prof=18

Note: Smoking during pregnancy rates are from 2020 birth certificate data. Births affected by smoking are calculated by multiplying the county-level smoking during pregnancy prevalence by the total number of live births in the county. County smoking during pregnancy rates based on counts less than 20 are considered unstable and should be interpreted with caution.

Cost of smoking-related births

Miller DP, Villa KF, Hogue SL, Sivapathasundaram D. Birth and first-year costs for mothers and infants attributable to maternal smoking. *Nicotine Tob Res.* 2001; 3(1):25-35.

Note: County-level costs of smoking-affected births are estimates based on 2020 birth certificate data. Costs are calculated by multiplying the estimated number of smoking-affected births by \$1,358 (the estimated cost per smoking-affected birth as calculated by Miller et al., [2001]).

Deaths attributable to smoking

Source for statewide data: Centers for Disease Control and Prevention (CDC). *Best Practices for Comprehensive Tobacco Control Programs – 2014*. Atlanta: U.S. Department of Health and Human services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 2014.

- Statewide estimated deaths attributable to smoking: 11,100 per year
- County-level deaths attributable to smoking represent the county's pro-rata share of the statewide smoking-attributable deaths based on the county's 2020 adult population. Estimates are calculated as follows:
(County 2020 adult population/Indiana 2020 adult population)*11,100

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Deaths due to secondhand smoke (SHS) and economic burden of SHS

Source for statewide data: Lewis CK, Zollinger T. *Estimating the economic impact of secondhand smoke in Indiana in 2018*. Cynthia K. Lewis & Associates, LLC. 2020.

- Statewide annual estimated deaths attributable to SHS: 1,770
- Estimated annual economic costs of SHS in Indiana: \$2.1 billion (\$2,194,683,195)
- Estimates of county-level deaths attributable to SHS represent the county's share of SHS-related deaths based on the county's 2020 total population and are calculated as follows: $(\text{County 2020 total population} / \text{Indiana 2020 total population}) * 1,770$
- Estimates of county-level economic costs due to secondhand smoke represent the county's share of SHS-related costs based on the county's 2020 total population are calculated as follows: $(\text{County 2020 total population} / \text{Indiana 2020 total population}) * \$2,194,683,195$.

Note: Costs related to secondhand smoke include health care costs and costs due to premature death from diseases causally linked to secondhand smoke.

Smoking-related illnesses

Source: Centers for Disease Control and Prevention. Smoking & Tobacco Use: Fast Facts. Accessed at http://www.cdc.gov/tobacco/data_statistics/fact_sheets/fast_facts/.

(Original source: U.S. Department of Health and Human Services. *The Health Consequences of Smoking—50 Years of Progress: A Report of the Surgeon General*. Atlanta: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 2014.)

- According to the Centers for Disease Control and Prevention, for every person who dies because of smoking, at least 30 people live with a serious smoking-related illness.
- Statewide estimated tobacco-related illnesses are calculated by multiplying the statewide estimated number of tobacco related deaths (11,100) by 30.
- County estimates represent the county's pro-rata share of tobacco-related illnesses based on the county's 2020 adult population. Estimates are calculated using the following formula: $(\text{County 2020 adult population} / \text{Indiana 2020 adult population}) * 333,000$

Economic costs due to smoking

Source: Campaign for Tobacco-Free Kids. The Toll of Tobacco in Indiana. Accessed at http://www.tobaccofreekids.org/facts_issues/toll_us/indiana

Note: Total costs (\$6.1 billion) are calculated by summing the estimates of total health care costs (\$2.93 billion) and lost productivity costs (\$3.17 billion). Sources for these estimates are as follows:

- Medical costs due to smoking: Centers for Disease Control and Prevention. *Best Practices for Comprehensive Tobacco Control Programs – 2014*. Atlanta: U.S. Department of Health and Human Services, Centers for Disease Control and prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 2014.
- Productivity losses due to smoking: Campaign for Tobacco-Free Kids. The Toll of Tobacco in Indiana. Accessed at http://www.tobaccofreekids.org/facts_issues/toll_us/indiana

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(For additional information, see also: Campaign for Tobacco-Free Kids. The Toll of Tobacco: Sources. Available at <https://www.tobaccofreekids.org/problem/toll-us/sources>)

Residents' state and federal tax burden due to smoking (per household)

Source: Campaign for Tobacco-Free Kids. The Toll of Tobacco in Indiana. Accessed at http://www.tobaccofreekids.org/facts_issues/toll_us/indiana

(For additional information, see also: Campaign for Tobacco-Free Kids. The Toll of Tobacco: Sources. Available at <https://www.tobaccofreekids.org/problem/toll-us/sources>)

Population Data

All population counts used to calculate statewide and county-level estimates are from the 2020 U.S. Census. Statewide and county-level data are available at <https://data.census.gov/cedsci/>