

## **Data Sources for County Pages**

### **Tobacco Prevention and Cessation**

#### **Adult smoking prevalence**

**Indiana prevalence:** Behavioral Risk Factor Surveillance System (BRFSS), 2022.

**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), 2018-2022.

Note: County-level adult smoking prevalence estimates were calculated using combined landline and cell phone BRFSS data from 2018-2022. 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 (2018-2022) than the state and national estimates (2022 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 2022 BRFSS)

**County-level:** (County 2020 adult population from the U.S. Census)\*(County-level adult smoking prevalence from 2018-2022 BRFSS)

#### **Lung cancer death rates**

**County-level and Indiana rates:** Indiana State Cancer Registry (ISCR). 2021.

**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/cancermort-v2021.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 and statewide data include deaths from malignant neoplasms of the lung and bronchus. United States data include deaths from malignant neoplasms of the trachea, 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 <http://wonder.cdc.gov/ucd-icd10.html>

Note: Rates are based on pooled data from 2016-2020. 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 Department of Health. 2021 Indiana County Age-Adjusted Emergency Department and Hospitalization Rates.

Note: Rates are based on 2021 emergency department visit data. Rates are per 10,000 population and age-adjusted to the 2020 U.S. standard population. Counts are suppressed if they are less than 5. Rates are considered unstable and should not be compared to other rates if counts are less than 20.

#### **Smoking during pregnancy and births affected by smoking**

Indiana Department of Health. Indiana Natality Dataset, 2022.

Note: Due to changes in the collection and cleaning of birth data in early 2021, smoking during pregnancy variables prior to 2021 should not be directly compared to the same variables in and after 2021. Counts are suppressed if they are less than 5. Rates are considered unstable and should not be compared to other rates if counts are less than 20.

#### **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

#### **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: (County 2020 total population/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:  
(County 2020 total population/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.

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#### **Smoking-related illnesses**

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: (County 2020 adult population/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](http://www.tobaccofreekids.org/facts_issues/toll_us/indiana)

Note: Total costs (\$10.9 billion) are calculated by summing the estimates of total health care costs (\$3.4 billion) and lost productivity costs (\$7.5 billion). Amounts do not include health costs caused by exposure to secondhand smoke, smoking-caused fires, or use of non-cigarette tobacco products. Productivity losses are from smoking-caused premature death and illness that prevent people from working. Tobacco use also imposes costs such as damage to property. *To make all of the cost data more comparable, some figures have been adjusted to 2018 dollars.*

Source: Campaign for Tobacco-Free Kids. The Toll of Tobacco in Indiana. Accessed at [http://www.tobaccofreekids.org/facts\\_issues/toll\\_us/indiana](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>)

#### **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](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/>