

# MADISON COUNTY

## ENVIRONMENTAL HEALTH PROFILE

Life expectancy is  
● 73.7 years

● 25.8%  
of people smoke

● 3.6%  
of people are minorities

● 18.8%  
of people live in poverty

The median household income is  
● \$37,484



## HEALTH

### Asthma Hospitalizations

∅ \* | Age-adjusted rate of hospitalizations per 10,000 people in 2016  
State Rate: 6.6

### Asthma ER Visits

● 46.6 | Age-adjusted rate of ER visits per 10,000 people in 2016  
State Rate: 50.9

### COPD Hospitalizations

● 28.8 | Age-adjusted rate of hospitalizations per 10,000 people in 2016  
State Rate: 26.1

### COPD ER Visits

● 128.8 | Age-adjusted rate of ER visits per 10,000 people in 2016  
State Rate: 75.5

### Carbon Monoxide Hospitalizations

● 0.0 \* | Age-adjusted rate of hospitalizations per 100,000 people in 2016  
State Rate: 1.0

### Carbon Monoxide ER Visits

● 0.0 \* | Age-adjusted rate of ER visits per 100,000 people in 2016  
State Rate: 4.9

### Heart Attack Hospitalizations

● 39.0 | Age-adjusted rate of hospitalizations per 10,000 people in 2016  
State Rate: 23.4

### Heat Related Illness

● 127.1 \* | Age-adjusted rate of ER visits per 100,000 people in 2016  
State Rate: 55.8

### Melanoma Incidence

● 42.6 \* | Age-adjusted rate of incidence per 100,000 people in 2016  
State Rate: 27.9

### Lung Cancer Incidence

● 58.5 \* | Age-adjusted rate of incidence per 100,000 people in 2016  
State Rate: 68.2



## DRINKING WATER

### Public Drinking Water Systems

4 | Number of public drinking water systems

### Private Drinking Water Wells

1139 | Number of private drinking water wells

● At or Above State Rate

● Below State Rate

\* Counts less than 20 are considered unreliable.

∅ Non-zero counts less than 5 are suppressed for patient confidentiality.



MISSOURI ENVIRONMENTAL PUBLIC HEALTH TRACKING PROGRAM

Bureau of Environmental Epidemiology  
Missouri Department of Health & Senior Services  
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## ENVIRONMENTAL HEALTH PROFILE



### AIR QUALITY

#### Asthma/ Lung Disease

No Air Monitors | Number of unhealthy days for people with asthma/ lung disease in 2016  
Maximum for counties with monitors: 12

#### Heart Disease

No Air Monitors | Number of unhealthy days for people with heart disease in 2016  
Maximum for counties with monitors: 1

#### Children and Elderly

No Air Monitors | Number of unhealthy days for children and the elderly in 2016  
Maximum for counties with monitors: 12

#### Active People

No Air Monitors | Number of unhealthy days for people active outdoors in 2016  
Maximum for counties with monitors: 12



### CLIMATE

#### Extreme Precipitation

13 | Number of days with more than 1 inch of precipitation in 2016

#### Extreme Heat

31 | Number of days with a high temperature above 90° F in 2016

#### Severe Drought

0 | Number of weeks with severe drought in 2016



### ENVIRONMENT

#### [Environmental Remediation Program](#)

Follow this link to the Missouri Department of Natural Resources website to view a map and find information about hazardous substance investigation and cleanup sites.

#### Fish Consumption Advisories

• Statewide Advisory for Sensitive Populations<sup>^</sup>



### RADON

#### Percent Elevated

40.0% | Percent of homes tested between 2008-2018 with elevated radon levels

#### Percent Tested

0.3% | Percent of homes tested between 2008-2018



### LEAD

#### Lead Exposure Risk Factors:

Childhood elevated blood lead rate above state average  
Elevated blood lead confirmation rate below state average  
NPL or IMMM Lead Sites  
Adult elevated blood lead rate above state average

#### [Missouri Lead Exposure Risk Tool](#)

<sup>^</sup>Women who are pregnant, nursing, or of childbearing age, and children younger than 13. All U.S. water bodies: All Fish (All Sizes)- 1 serving/ week. All MO water bodies: Walleye, Largemouth, Smallmouth, & Spotted Bass (>12")- 1 serving/ month; Flathead, Channel, & Blue Catfish (>30") 1 serving/ month.



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# ABOUT THE DATA

## ENVIRONMENTAL HEALTH PROFILE

	Source	Years	Description
Life Expectancy	<a href="#">DHSS-Life Expectancy</a>	2008-2016	Life expectancy from birth, based on 2008-2016 birth, death and population data. Statewide: 77.4 years. Source: DHSS – Data and Statistics, Life Expectancy.
Smoking	<a href="#">MOPHIMS - County-Level Study Profile</a>	2016	Percentage of adults who currently smoke cigarettes. State rate: 21.9%. Source: DHSS – Missouri Public Health Information Management System (MOPHIMS), Missouri County Level Study.
Minorities	<a href="#">U.S. Census Bureau</a>	2010	Percentage of racial and ethnic minorities. State rate: 19%. Source: 2010 U.S. Census, Summary File 1, Table GCT-P3.
Poverty	<a href="#">American Community Survey</a>	2013-2017	Percent of the population living in poverty. State rate: 14.6%. Source: American Community Survey 5-Year Estimates, 2013-2017, Table GCT1701.
Income	<a href="#">American Community Survey</a>	2013-2017	Median annual household income. Statewide: \$51,542. Source: American Community Survey 5-Year Estimates, 2013-2017, Table GCT1901.



## HEALTH

	Source	Years	Description
Asthma COPD Heart Attack	<a href="#">MOPHIMS-EPHT</a> DHSS-EPHT	2016	Age-adjusted rates of emergency room (ER) visits and hospitalizations for asthma and COPD; and hospitalizations for heart attack per 10,000 people, based on the 2000 U.S. Census standard population. Source: DHSS MOPHIMS-Environmental Public Health Tracking (EPHT).
Carbon Monoxide Melanoma Lung Cancer	<a href="#">MOPHIMS-EPHT</a> <a href="#">MOPHIMS-MICA</a> DHSS-EPHT	2016	Age-adjusted rates of ER visits and hospitalizations for carbon monoxide poisoning; incidence of melanoma; and incidence of lung cancer per 100,000 people, based on the 2000 U.S. Census standard population. Source: DHSS MOPHIMS-EPHT (carbon monoxide and heart attack data); DHSS MOPHIMS-Missouri Information for Community Assessment (MICA) (cancer incidence).
Heat Related Illness	DHSS-EPHT	2016	Age-adjusted rate of ER visits per 100,000 people, based on the 2000 U.S. Census standard population. Source: DHSS Bureau of Environmental Epidemiology, EPHT.



## DRINKING WATER

	Source	Years	Description
Public Drinking Water Systems	<a href="#">Public Drinking Water</a> <a href="#">MOPHIMS-EPHT</a>	2019	Number of public drinking water systems. Source: Department of Natural Resources, Public Drinking Water Branch. Water quality data available from DHSS MOPHIMS-EPHT.
Private Drinking Water Wells	<a href="#">Private Drinking Water</a> DHSS-EPHT	1978-2017	Number of private drinking water wells. Source: DHSS Bureau of Environmental Epidemiology, EPHT and Private Drinking Water Program.



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### AIR QUALITY

	Source	Years	Description
Asthma/ Lung Disease Children and Elderly Heart Disease Active People	<a href="#">EPA AirCompare</a> <a href="#">MOPHIMS-EPHT</a>	2016	Number of unhealthy days for populations with asthma or other chronic lung disease; children and the elderly; populations with heart disease; and active people. Source: EPA AirCompare tool, based on air quality data collected from air monitors in 24 counties. Air quality data available from DHSS MOPHIMS-EPHT.



### CLIMATE

	Source	Years	Description
Extreme Precipitation	<a href="#">National EPHT Portal</a>	2016	Number of days with one or more inches of precipitation. Source: CDC, National Environmental Public Health Tracking Data Explorer.
Extreme Heat	<a href="#">National EPHT Portal</a>	2016	Number of days with a high temperature at or above 90°F. Source: CDC, National Environmental Public Health Tracking Data Explorer.
Severe Drought	<a href="#">National EPHT Portal</a>	2016	Number of weeks with severe drought. Source: CDC, National Environmental Public Health Tracking Data Explorer.



### ENVIRONMENT

	Source	Years	Description
Environmental Remediation	<a href="#">DNR Environmental Remediation Program</a>	2019	The Missouri Department of Natural Resources, Environmental Remediation Program maintains a map and logs information on all hazardous substance investigation and cleanup sites in the state.
Fish Consumption Advisories	<a href="#">Fish Advisories</a>	2019	2019 Missouri Fish Advisories. Source: DHSS Bureau of Environmental Epidemiology.



### RADON

	Source	Years	Description
Percent Elevated	DHSS-EPHT	2008-2018	Percentage of homes with test results showing elevated (> 4 pCi/L) radon levels. Source: DHSS Bureau of Environmental Epidemiology, Indoor Air Quality Database.
Percent Tested	DHSS-EPHT <a href="#">American Community Survey</a>	2008-2018	Percentage of homes tested for radon. Source: DHSS Bureau of Environmental Epidemiology, Indoor Air Quality Database (radon data); American Community Survey, 2018 Population Estimates, Table PEPANNHU (housing data).



### LEAD

	Source	Years	Description
Lead Exposure Risk Factors	<a href="#">DHSS-EPHT</a>	2018	Lead exposure risk factors contributing to the overall exposure risk. Source: DHSS Bureau of Environmental Epidemiology, EPHT.
Missouri Lead Exposure Risk Tool	<a href="#">DHSS-EPHT</a>	2018	Statewide break down of lead exposure risk factors by county and zip code. Source: DHSS Bureau of Environmental Epidemiology, EPHT.

