

# VERNON COUNTY

## ENVIRONMENTAL HEALTH PROFILE

Life expectancy is  
● 75.5 years

● 26.5%  
of people smoke

● 4.5%  
of people are minorities

● 15.2%  
of people live in poverty

The median household income is  
● \$41,479



## HEALTH

### Asthma Hospitalizations

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

### Asthma ER Visits

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

### COPD Hospitalizations

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

### COPD ER Visits

● 83.6 | 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

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

### Heat Related Illness

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

### Melanoma Incidence

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

### Lung Cancer Incidence

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



## DRINKING WATER

### Public Drinking Water Systems

11 | Number of public drinking water systems

### Private Drinking Water Wells

269 | 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  
ephtn.dhss.mo.gov | EPHTN@health.mo.gov



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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

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

#### Extreme Heat

66 | 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

10.3% | 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:

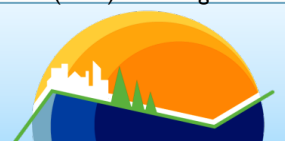
Childhood elevated blood lead rate above state average  
Childhood blood lead testing rate below state average  
Elevated blood lead confirmation rate below state average

#### [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<br>COPD<br>Heart Attack             | <a href="#">MOPHIMS-EPHT</a><br>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<br>Melanoma<br>Lung Cancer | <a href="#">MOPHIMS-EPHT</a><br><a href="#">MOPHIMS-MICA</a><br>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><br><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><br>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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## ENVIRONMENTAL HEALTH PROFILE



### AIR QUALITY

|  | Source   | Years | Description  |
|--|--|-------|--|
| Asthma/ Lung Disease<br>Children and Elderly<br>Heart Disease<br>Active People | <a href="#">EPA AirCompare</a><br><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<br><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. |

