**Warren County Environmental Health Profile**

**Health**

- **Asthma Hospitalizations**
  - Age-adjusted rate of hospitalizations per 10,000 people in 2016: 2.0
  - State Rate: 6.6

- **COPD Hospitalizations**
  - Age-adjusted rate of hospitalizations per 10,000 people in 2016: 26.5
  - State Rate: 26.1

- **Carbon Monoxide Hospitalizations**
  - Age-adjusted rate of hospitalizations per 100,000 people in 2016: 0.0
  - State Rate: 1.0

- **Heart Attack Hospitalizations**
  - Age-adjusted rate of hospitalizations per 10,000 people in 2016: 39.6
  - State Rate: 23.4

- **Melanoma Incidence**
  - Age-adjusted rate of incidence per 100,000 people in 2016: 24.2
  - State Rate: 27.9

- **Asthma ER Visits**
  - Age-adjusted rate of ER visits per 10,000 people in 2016: 44.0
  - State Rate: 50.9

- **COPD ER Visits**
  - Age-adjusted rate of ER visits per 10,000 people in 2016: 70.1
  - State Rate: 75.5

- **Carbon Monoxide ER Visits**
  - Age-adjusted rate of ER visits per 100,000 people in 2016: Ø
  - State Rate: 4.9

- **Heat Related Illness**
  - Age-adjusted rate of ER visits per 100,000 people in 2016: 101.9
  - State Rate: 55.8

- **Lung Cancer Incidence**
  - Age-adjusted rate of incidence per 100,000 people in 2016: 74.7
  - State Rate: 68.2

**Drinking Water**

- **Public Drinking Water Systems**
  - Number of public drinking water systems: 21

- **Private Drinking Water Wells**
  - Number of private drinking water wells: 2371

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*Counts less than 20 are considered unreliable. Non-zero counts less than 5 are suppressed for patient confidentiality.*
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
- **12**: Number of days with more than 1 inch of precipitation in 2016

### Extreme Heat
- **43**: Number of days with a high temperature above 90º 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
- Missouri River: Shovelnose Sturgeon (All Sizes)- 1 serving/ month; Sturgeon Eggs- Do Not Eat; Flathead, Channel, & Blue Catfish (>17")- 1 serving/ week; Buffalo (All Sizes)- 1 serving/ month; Common Carp (>21")- 1 serving/ week

### RADON

#### Percent Elevated
- **43.8%**: Percent of homes tested between 2008-2018 with elevated radon levels

#### Percent Tested
- **1.3%**: Percent of homes tested between 2008-2018

LEAD

Lead Exposure Risk Factors:

Childhood blood lead testing rate below state average

Missouri Lead Exposure Risk Tool

^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.
## ABOUT THE DATA
### ENVIRONMENTAL HEALTH PROFILE

<table>
<thead>
<tr>
<th>Source</th>
<th>Years</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minorities</td>
<td>2010</td>
<td>Percentage of racial and ethnic minorities. State rate: 19%. Source: 2010 U.S. Census, Summary File 1, Table GCT-P3.</td>
</tr>
</tbody>
</table>

## HEALTH

### Asthma
Source: MOPHIMS-EPHT
Year: 2016
Description: Age-adjusted rates of emergency room (ER) visits and hospitalizations for asthma; 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).

### COPD
Source: DHSS-EPHT
Year: 2016
Description: 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).

### Heart Attack
Source: DHSS-EPHT
Year: 2016
Description: Age-adjusted rates of emergency room (ER) visits and hospitalizations for heart attack per 10,000 people, based on the 2000 U.S. Census standard population. Source: DHSS Bureau of Environmental Epidemiology, EPHT.

### Carbon Monoxide Poisoning
Source: MOPHIMS-EPHT
Year: 2016
Description: 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).

## DRINKING WATER

### Public Drinking Water Systems
Source: Public Drinking Water
Year: 2019
Description: 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
Source: Private Drinking Water
Year: 1978-2017
Description: Number of private drinking water wells. Source: DHSS Bureau of Environmental Epidemiology, EPHT and Private Drinking Water Program.
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<td>2016</td>
<td>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.</td>
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<td>Heart Disease</td>
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<td>Active People</td>
<td>2016</td>
<td>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.</td>
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<td>Number of days with one or more inches of precipitation. Source: CDC, National Environmental Public Health Tracking Data Explorer.</td>
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<td>Extreme Heat</td>
<td>2016</td>
<td>Number of days with a high temperature at or above 90°F. Source: CDC, National Environmental Public Health Tracking Data Explorer.</td>
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<td>Severe Drought</td>
<td>2016</td>
<td>Number of weeks with severe drought. Source: CDC, National Environmental Public Health Tracking Data Explorer.</td>
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<td>Environmental Remediation</td>
<td>2019</td>
<td>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.</td>
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<td>Fish Consumption Advisories</td>
<td>2019</td>
<td>2019 Missouri Fish Advisories. Source: DHSS Bureau of Environmental Epidemiology.</td>
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<td>Percent Elevated</td>
<td>2008-2018</td>
<td>Percentage of homes with test results showing elevated (&gt; 4 pCi/L) radon levels. Source: DHSS Bureau of Environmental Epidemiology, Indoor Air Quality Database.</td>
</tr>
<tr>
<td>Percent Tested</td>
<td>2008-2018</td>
<td>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).</td>
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<td>Lead exposure risk factors contributing to the overall exposure risk. Source: DHSS Bureau of Environmental Epidemiology, EPHT.</td>
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<tr>
<td>Missouri Lead Exposure Risk Tool</td>
<td>2018</td>
<td>Statewide break down of lead exposure risk factors by county and zip code. Source: DHSS Bureau of Environmental Epidemiology, EPHT.</td>
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