## HEALTH

**Asthma Hospitalizations**
- Age-adjusted rate of hospitalizations per 10,000 people in 2016
  - State Rate: 6.6
  - **26.1**

**COPD Hospitalizations**
- Age-adjusted rate of hospitalizations per 10,000 people in 2016
  - State Rate: 26.1
  - **44.7**

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

**Heart Attack Hospitalizations**
- Age-adjusted rate of hospitalizations per 10,000 people in 2016
  - State Rate: 23.4
  - **33.1**

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

**Asthma ER Visits**
- Age-adjusted rate of ER visits per 10,000 people in 2016
  - State Rate: 50.9
  - **19.4**

**COPD ER Visits**
- Age-adjusted rate of ER visits per 10,000 people in 2016
  - State Rate: 75.5
  - **58.3**

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

**Heat Related Illness**
- Age-adjusted rate of ER visits per 100,000 people in 2016
  - State Rate: 55.8
  - **68.1**

**Lung Cancer Incidence**
- Age-adjusted rate of incidence per 100,000 people in 2016
  - State Rate: 68.2
  - **101.3**

## DRINKING WATER

**Public Drinking Water Systems**
- Number of public drinking water systems
  - **8**

**Private Drinking Water Wells**
- Number of private drinking water wells
  - **62**

* Counts less than 20 are considered unreliable.
Ø Non-zero counts less than 5 are suppressed for patient confidentiality.
**CARROLL COUNTY**
**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

### CLIMATE

#### Extreme Precipitation
- 12
  - Number of days with more than 1 inch of precipitation in 2016

#### Extreme Heat
- 58
  - 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**
- 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
- 20.0%
  - 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:
- Pre 1980 Housing Rate above state average

**Missouri Lead Exposure Risk Tool**

---

Missouri Environmental Public Health Tracking Program
Bureau of Environmental Epidemiology
Missouri Department of Health & Senior Services
ephtn.dhss.mo.gov | EPHTN@health.mo.gov

---

^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 (>17")- 1 serving/ week; Buffalo (All Sizes)- 1 serving/ month; Common Carp (>21")- 1 serving/ week.
<table>
<thead>
<tr>
<th>Source</th>
<th>Years</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoking</td>
<td>MOPHIMS - County-Level Study Profile</td>
<td>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.</td>
</tr>
<tr>
<td>Minorities</td>
<td>U.S. Census Bureau</td>
<td>2010 Percentage of racial and ethnic minorities. State rate: 19%. Source: 2010 U.S. Census, Summary File 1, Table GCT-P3.</td>
</tr>
<tr>
<td>Asthma</td>
<td>MOPHIMS-EPHT</td>
<td>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).</td>
</tr>
<tr>
<td>COPD</td>
<td>DHSS-EPHT</td>
<td>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).</td>
</tr>
<tr>
<td>Heart Attack</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>MOPHIMS-EPHT</td>
<td>2016</td>
</tr>
<tr>
<td>Melanoma</td>
<td>MOPHIMS-MICA</td>
<td>2016</td>
</tr>
<tr>
<td>Lung Cancer</td>
<td>DHSS-EPHT</td>
<td>2016</td>
</tr>
<tr>
<td>Heat Related Illness</td>
<td>DHSS-EPHT</td>
<td>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.</td>
</tr>
</tbody>
</table>

**DRINKING WATER**

<table>
<thead>
<tr>
<th>Source</th>
<th>Years</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Drinking Water Systems</td>
<td></td>
<td>2019 Number of public drinking water systems. Source: Department of Natural Resources, Public Drinking Water Branch. Water quality data available from DHSS MOPHIMS-EPHT.</td>
</tr>
</tbody>
</table>

**ABOUT THE DATA**

**ENVIRONMENTAL HEALTH PROFILE**

**HEALTH**

**DRINKING WATER**

**MISSOURI ENVIRONMENTAL PUBLIC HEALTH TRACKING PROGRAM**

Bureau of Environmental Epidemiology
Missouri Department of Health & Senior Services
ephtn.dhss.mo.gov | EPHTN@health.mo.gov
## ABOUT THE DATA

### AIR QUALITY

<table>
<thead>
<tr>
<th>Source</th>
<th>Years</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asthma/ Lung Disease</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>
</tr>
</tbody>
</table>

### CLIMATE

<table>
<thead>
<tr>
<th>Source</th>
<th>Years</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extreme Precipitation</td>
<td>2016</td>
<td>Number of days with one or more inches of precipitation. Source: CDC, National Environmental Public Health Tracking Data Explorer.</td>
</tr>
<tr>
<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>
</tr>
<tr>
<td>Severe Drought</td>
<td>2016</td>
<td>Number of weeks with severe drought. Source: CDC, National Environmental Public Health Tracking Data Explorer.</td>
</tr>
</tbody>
</table>

### ENVIRONMENT

<table>
<thead>
<tr>
<th>Source</th>
<th>Years</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<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>
</tr>
<tr>
<td>Fish Consumption Advisories</td>
<td>2019</td>
<td>2019 Missouri Fish Advisories. Source: DHSS Bureau of Environmental Epidemiology.</td>
</tr>
</tbody>
</table>

### RADON

<table>
<thead>
<tr>
<th>Source</th>
<th>Years</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<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>
</tr>
</tbody>
</table>

### LEAD

<table>
<thead>
<tr>
<th>Source</th>
<th>Years</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Exposure Risk Factors</td>
<td>2018</td>
<td>Lead exposure risk factors contributing to the overall exposure risk. Source: DHSS Bureau of Environmental Epidemiology, EPHT.</td>
</tr>
<tr>
<td>Missouri Lead Exposure Risk</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>
</tr>
</tbody>
</table>