BUTLER COUNTY
ENVIRONMENTAL HEALTH PROFILE

HEALTH

Asthma Hospitalizations
- Age-adjusted rate of hospitalizations per 10,000 people in 2016
  - 9.8
  - State Rate: 6.6

COPD Hospitalizations
- Age-adjusted rate of hospitalizations per 10,000 people in 2016
  - 60.9
  - 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
  - 33.0
  - State Rate: 23.4

Melanoma Incidence
- Age-adjusted rate of incidence per 100,000 people in 2016
  - 30.8
  - State Rate: 27.9

Asthma ER Visits
- Age-adjusted rate of ER visits per 10,000 people in 2016
  - 36.5
  - State Rate: 50.9

COPD ER Visits
- Age-adjusted rate of ER visits per 10,000 people in 2016
  - 103.8
  - State Rate: 75.5

Carbon Monoxide ER Visits
- Age-adjusted rate of ER visits per 100,000 people in 2016
  - 0.0
  - State Rate: 4.9

Heat Related Illness
- Age-adjusted rate of ER visits per 100,000 people in 2016
  - 88.1
  - State Rate: 55.8

Lung Cancer Incidence
- Age-adjusted rate of incidence per 100,000 people in 2016
  - 83.4
  - State Rate: 68.2

DRINKING WATER

Public Drinking Water Systems
- Number of public drinking water systems
  - 18

Private Drinking Water Wells
- Number of private drinking water wells
  - 1043

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

Life expectancy is 74 years
- 29.8% of people smoke
- 10.0% of people are minorities
- 21.6% of people live in poverty
The median household income is $37,878

MISSOURI ENVIRONMENTAL PUBLIC HEALTH TRACKING PROGRAM
Bureau of Environmental Epidemiology
Missouri Department of Health & Senior Services
ephn.dhss.mo.gov | EPHTN@health.mo.gov
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
- 16 days with more than 1 inch of precipitation in 2016

### Extreme Heat
- 67 days with a high temperature above 90º F in 2016

### Severe Drought
- 1 week with severe drought in 2016

RADON

### Percent Elevated
- 3.7% of homes tested between 2008-2018 with elevated radon levels

### Percent Tested
- 0.1% of homes tested between 2008-2018

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^ 

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^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.
<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 2016</td>
<td>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 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>
<tr>
<td>Asthma</td>
<td>MOPHIMS-EPHT 2016</td>
<td>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>
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<td>COPD</td>
<td>DHSS-EPHT</td>
<td></td>
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<tr>
<td>Heart Attack</td>
<td>MOPHIMS-EPHT 2016</td>
<td>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>
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<td>Carbon Monoxide</td>
<td>MOPHIMS-EPHT 2016</td>
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<td>MOPHIMS-MICA</td>
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<td>Lung Cancer</td>
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<td>Heat Related Illness</td>
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<td>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>
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<td><strong>Asthma/ Lung Disease</strong>&lt;br&gt;Children and Elderly&lt;br&gt;Heart Disease&lt;br&gt;Active People</td>
<td>EPA AirCompare&lt;br&gt;MOPHIMS-EPHT</td>
<td>2016</td>
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<td><strong>Extreme Precipitation</strong>&lt;br&gt;National EPHT Portal</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>
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<td><strong>Extreme Heat</strong>&lt;br&gt;National EPHT Portal</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><strong>Severe Drought</strong>&lt;br&gt;National EPHT Portal</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><strong>Environmental Remediation</strong>&lt;br&gt;DNR Environmental Remediation Program</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><strong>Fish Consumption Advisories</strong>&lt;br&gt;Fish Advisories</td>
<td>2019</td>
<td>2019 Missouri Fish Advisories. Source: DHSS Bureau of Environmental Epidemiology.</td>
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<td><strong>Percent Elevated</strong>&lt;br&gt;DHSS-EPHT</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>
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<td><strong>Percent Tested</strong>&lt;br&gt;DHSS-EPHT&lt;br&gt;American Community Survey</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><strong>Lead Exposure Risk Factors</strong>&lt;br&gt;DHSS-EPHT</td>
<td>2018</td>
<td>Lead exposure risk factors contributing to the overall exposure risk. Source: DHSS Bureau of Environmental Epidemiology, EPHT.</td>
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<td><strong>Missouri Lead Exposure Risk Tool</strong>&lt;br&gt;DHSS-EPHT</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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