LINN COUNTY
ENVIRONMENTAL HEALTH PROFILE

HEALTH

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

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

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

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

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

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

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

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

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

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

DRINKING WATER

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

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

- At or Above State Rate
- Below State Rate
* Counts less than 20 are considered unreliable.
 Ø 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

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**CLIMATE**

### Extreme Precipitation
- 7
  - Number of days with more than 1 inch of precipitation in 2016

### Extreme Heat
- 54
  - Number of days with a high temperature above 90° F in 2016

### Severe Drought
- 0
  - Number of weeks with severe drought in 2016

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**RADON**

### Percent Elevated
- 10.3%
  - Percent of homes tested between 2008-2018 with elevated radon levels

### Percent Tested
- 0.5%
  - Percent of homes tested between 2008-2018

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**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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**LEAD**

### Lead Exposure Risk Factors:
- Childhood blood lead testing rate below state average
- Elevated blood lead confirmation rate below state average
- Pre 1980 Housing Rate above state average

### Missouri Lead Exposure Risk Tool

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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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<tr>
<td>COPD</td>
<td>DHSS-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>Heart Attack</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>Carbon Monoxide</td>
<td>MOPHIMS-EPHT 2016</td>
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<td>Melanoma</td>
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<td>Asthma/ Lung Disease Children and Elderly Heart Disease 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>Extreme Precipitation</td>
<td>National EPHT Portal 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>National EPHT Portal 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>National EPHT Portal 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>DNR Environmental Remediation Program 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>Fish Advisories 2019</td>
<td>2019 Missouri Fish Advisories. Source: DHSS Bureau of Environmental Epidemiology.</td>
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<td>Percent Elevated</td>
<td>DHSS-EPHT 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>Percent Tested</td>
<td>DHSS-EPHT American Community Survey 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</td>
<td>DHSS-EPHT 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>Missouri Lead Exposure Risk Tool</td>
<td>DHSS-EPHT 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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