HOLT COUNTY
ENVIRONMENTAL HEALTH PROFILE

Life expectancy is 77.8 years

18.5% of people smoke
2.8% of people are minorities
12.0% of people live in poverty
The median household income is $43,981

HEALTH

Asthma Hospitalizations

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

COPD Hospitalizations

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

Carbon Monoxide Hospitalizations

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

Heart Attack Hospitalizations

* 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

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

COPD ER Visits

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

Carbon Monoxide ER Visits

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

Heat Related Illness

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

Lung Cancer Incidence

Ø Age-adjusted rate of incidence per 100,000 people in 2016
  State Rate: 68.2

DRINKING WATER

Public Drinking Water Systems

6 Number of public drinking water systems

Private Drinking Water Wells

113 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**

<table>
<thead>
<tr>
<th>Asthma/ Lung Disease</th>
<th>Children and Elderly</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Air Monitors</td>
<td>No Air Monitors</td>
</tr>
<tr>
<td>Number of unhealthy days for people with asthma/ lung disease in 2016</td>
<td>Number of unhealthy days for children and the elderly in 2016</td>
</tr>
<tr>
<td>Maximum for counties with monitors: 12</td>
<td>Maximum for counties with monitors: 12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Heart Disease</th>
<th>Active People</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Air Monitors</td>
<td>No Air Monitors</td>
</tr>
<tr>
<td>Number of unhealthy days for people with heart disease in 2016</td>
<td>Number of unhealthy days for people active outdoors in 2016</td>
</tr>
<tr>
<td>Maximum for counties with monitors: 1</td>
<td>Maximum for counties with monitors: 12</td>
</tr>
</tbody>
</table>

**CLIMATE**

<table>
<thead>
<tr>
<th>Extreme Precipitation</th>
<th>Extreme Heat</th>
<th>Severe Drought</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>60</td>
<td>0</td>
</tr>
<tr>
<td>Number of days with more than 1 inch of precipitation in 2016</td>
<td>Number of days with a high temperature above 90°F in 2016</td>
<td>Number of weeks with severe drought in 2016</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Percent Elevated</th>
<th>Percent Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>57.7%</td>
<td>0.9%</td>
</tr>
<tr>
<td>Percent of homes tested between 2008-2018 with elevated radon levels</td>
<td>Percent of homes tested between 2008-2018</td>
</tr>
</tbody>
</table>

**LEAD**

**Lead Exposure Risk Factors:**

- Childhood elevated blood lead rate above state average
- Elevated blood lead confirmation rate below state average
- Pre 1980 Housing Rate above state average
- Adult elevated blood lead rate above 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.
<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>
</tr>
<tr>
<td>COPD</td>
<td>DHSS-EPHT</td>
<td></td>
</tr>
<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>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>MOPHIMS-EPHT 2016</td>
<td></td>
</tr>
<tr>
<td>Melanoma</td>
<td>MOPHIMS-MICA 2016</td>
<td></td>
</tr>
<tr>
<td>Lung Cancer</td>
<td>DHSS-EPHT</td>
<td></td>
</tr>
<tr>
<td>Heat Related Illness</td>
<td>DHSS-EPHT    2016</td>
<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>
</tr>
</tbody>
</table>
## AIR QUALITY

<table>
<thead>
<tr>
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<th>Years</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asthma/ Lung Disease Children and Elderly</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>
<tr>
<td>Heart Disease</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Active People</td>
<td></td>
<td></td>
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</tbody>
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## CLIMATE

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<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>
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<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-</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>2018</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Percent Tested</td>
<td>2008-</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>
<tr>
<td>2018</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## LEAD

<table>
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<tr>
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<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 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>
</tr>
</tbody>
</table>