

RAY COUNTY

ENVIRONMENTAL HEALTH PROFILE

Life expectancy is
● 75.8 years

● 29.7%
of people smoke

● 4.9%
of people are minorities

● 15.6%
of people live in poverty

The median household income is
● \$57,270



HEALTH

Asthma Hospitalizations

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

Asthma ER Visits

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

COPD Hospitalizations

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

COPD ER Visits

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

Carbon Monoxide Hospitalizations

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

Carbon Monoxide ER Visits

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

Heart Attack Hospitalizations

● 28.3 | Age-adjusted rate of hospitalizations per 10,000 people in 2016
State Rate: 23.4

Heat Related Illness

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

Melanoma Incidence

∅ * | Age-adjusted rate of incidence per 100,000 people in 2016
State Rate: 27.9

Lung Cancer Incidence

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



DRINKING WATER

Public Drinking Water Systems

10 | Number of public drinking water systems

Private Drinking Water Wells

89 | Number of private drinking water wells

● At or Above State Rate

● Below State Rate

* Counts less than 20 are considered unreliable.

∅ Non-zero counts less than 5 are suppressed for patient confidentiality.



MISSOURI ENVIRONMENTAL PUBLIC HEALTH TRACKING PROGRAM

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



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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

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

13 | Number of days with more than 1 inch of precipitation in 2016

Extreme Heat

52 | 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

35.5% | Percent of homes tested between 2008-2018 with elevated radon levels

Percent Tested

0.8% | Percent of homes tested between 2008-2018



LEAD

Lead Exposure Risk Factors:

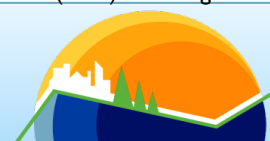
Elevated blood lead confirmation rate below state average
Pre 1980 Housing Rate above state average

[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.



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ABOUT THE DATA

ENVIRONMENTAL HEALTH PROFILE

	Source	Years	Description
Life Expectancy	DHSS-Life Expectancy	2008-2016	Life expectancy from birth, based on 2008-2016 birth, death and population data. Statewide: 77.4 years. Source: DHSS – Data and Statistics, Life Expectancy.
Smoking	MOPHIMS - County-Level Study Profile	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.
Minorities	U.S. Census Bureau	2010	Percentage of racial and ethnic minorities. State rate: 19%. Source: 2010 U.S. Census, Summary File 1, Table GCT-P3.
Poverty	American Community Survey	2013-2017	Percent of the population living in poverty. State rate: 14.6%. Source: American Community Survey 5-Year Estimates, 2013-2017, Table GCT1701.
Income	American Community Survey	2013-2017	Median annual household income. Statewide: \$51,542. Source: American Community Survey 5-Year Estimates, 2013-2017, Table GCT1901.



HEALTH

	Source	Years	Description
Asthma COPD Heart Attack	MOPHIMS-EPHT DHSS-EPHT	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).
Carbon Monoxide Melanoma Lung Cancer	MOPHIMS-EPHT MOPHIMS-MICA DHSS-EPHT	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).
Heat Related Illness	DHSS-EPHT	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.



DRINKING WATER

	Source	Years	Description
Public Drinking Water Systems	Public Drinking Water MOPHIMS-EPHT	2019	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	Private Drinking Water DHSS-EPHT	1978-2017	Number of private drinking water wells. Source: DHSS Bureau of Environmental Epidemiology, EPHT and Private Drinking Water Program.



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AIR QUALITY

	Source	Years	Description
Asthma/ Lung Disease Children and Elderly Heart Disease Active People	EPA AirCompare MOPHIMS-EPHT	2016	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.



CLIMATE

	Source	Years	Description
Extreme Precipitation	National EPHT Portal	2016	Number of days with one or more inches of precipitation. Source: CDC, National Environmental Public Health Tracking Data Explorer.
Extreme Heat	National EPHT Portal	2016	Number of days with a high temperature at or above 90°F. Source: CDC, National Environmental Public Health Tracking Data Explorer.
Severe Drought	National EPHT Portal	2016	Number of weeks with severe drought. Source: CDC, National Environmental Public Health Tracking Data Explorer.



ENVIRONMENT

	Source	Years	Description
Environmental Remediation	DNR Environmental Remediation Program	2019	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.
Fish Consumption Advisories	Fish Advisories	2019	2019 Missouri Fish Advisories. Source: DHSS Bureau of Environmental Epidemiology.



RADON

	Source	Years	Description
Percent Elevated	DHSS-EPHT	2008-2018	Percentage of homes with test results showing elevated (> 4 pCi/L) radon levels. Source: DHSS Bureau of Environmental Epidemiology, Indoor Air Quality Database.
Percent Tested	DHSS-EPHT American Community Survey	2008-2018	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).



LEAD

	Source	Years	Description
Lead Exposure Risk Factors	DHSS-EPHT	2018	Lead exposure risk factors contributing to the overall exposure risk. Source: DHSS Bureau of Environmental Epidemiology, EPHT.
Missouri Lead Exposure Risk Tool	DHSS-EPHT	2018	Statewide break down of lead exposure risk factors by county and zip code. Source: DHSS Bureau of Environmental Epidemiology, EPHT.

