

# The Missouri Environmental Public Health Tracking Program and Network

Bureau of Environmental Epidemiology  
Missouri Department of Health and Senior Services  
Division of Community and Public Health  
Section for Environmental Public Health



## **Vision**

Healthy Missourians living in healthy communities for life.

## **Mission**

To provide information to and receive information from the National EPHT Network by compiling, combining, and translating public health and environmental data into meaningful information that leads to increased knowledge that is used to increase the health of Missourians and their communities.

# What is Environmental Public Health Tracking (EPHT)?

Environmental public health tracking is the ongoing collection, integration, analysis, and interpretation of data about the following factors:

- environmental hazards,
- exposure to environmental hazards, and
- health effects potentially related to exposure to environmental hazards.

# Purpose

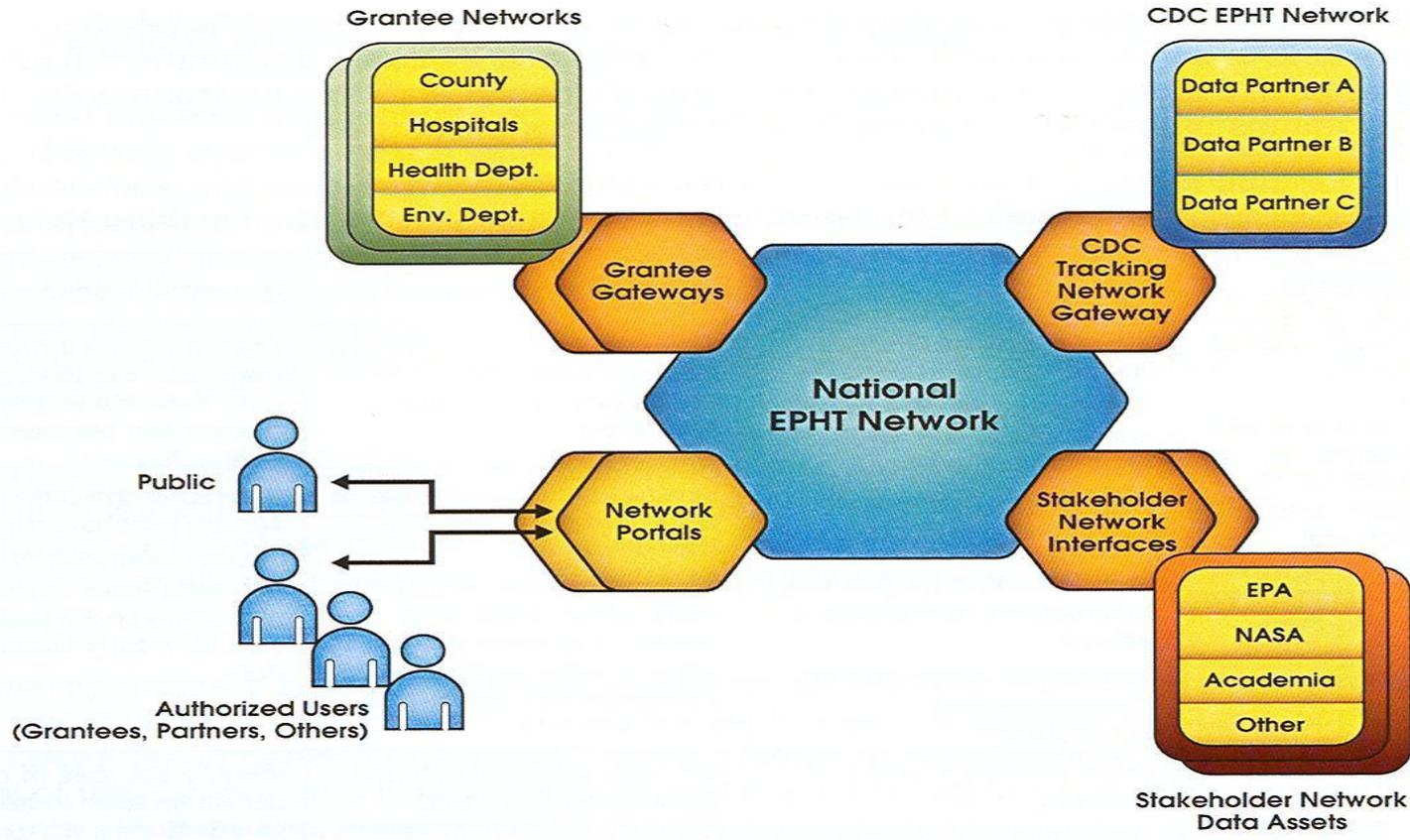


The EPHT Network will help to protect communities by providing information to federal, state, and local agencies. These agencies, in turn, may use this information to plan, apply, and evaluate public health actions to prevent and control environmentally related diseases.

# The EPHT Network...

- Is a web-based, secure, distributed network of nationally consistent electronic health and environmental data.
- Relies on data and information housed at state and local sites and within national-level data systems.
- Provides means to access hazard, exposure, and health data and tools for environmental health analysis.
- Supports tracking efforts by improving information, standardization, identification, access and analysis.

# Network Overview





# The EPHT Portal



## Environmental Public Health Tracking

Home » Environmental Public Health Tracking

- [Secure Data Portal](#)
- [Frequently Asked Questions](#)
- [Glossary](#)
- [Strategic Plan](#)
- [Risk Communication & Management Plan](#)
- [Missouri EPHT Data & Statistical Guide](#)



**NATIONAL**  
Environmental Public Health  
Tracking Program

**Health Data**   **Environmental Data**   **Community Data**   **National Data**

### National Data

Visit CDC's data portal for a look at national data.  
[See more...](#)

Environmental Public Health Tracking (EPHT) involves the ongoing collection, integration, and analysis of data about environmental hazards, exposure to environmental hazards, and health effects potentially related to exposure to those hazards. The goal of EPHT is to protect communities by providing federal, state, and local agencies with information they can use to plan, apply, and evaluate environmental public health actions.

Since joining the program in 2002, Missouri has collaborated with federal, state and local partners to bring together its distributed environmental data. These efforts have provided a means to evaluate the effectiveness of environmental monitoring in the state.

## Healthy Living

- [Environmental Factors](#)
- [Chronic Diseases](#)
- [Communicable Diseases](#)
- [Healthy Families](#)
- [Women, Infants & Children \(WIC\)](#)
- [Genetic Disease & Early Childhood](#)
- [Food Programs](#)
- [Wellness & Prevention](#)
- [Local Public Health Agencies](#)
- [Immunizations](#)

## Related Information

- [Health Data](#)
- [Community Data](#)
- [Environmental Data](#)
- [National Data](#)
- [Secure Data Portal](#)
- [Frequently Asked Questions](#)
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## Section for Environmental Public Health

Missouri Department of Health and Senior Services

[Healthy Living](#)

[Senior & Disability Services](#)

[Licensing & Regulations](#)

[Disaster & Emergency Planning](#)

[Data & Statistics](#)

[Online Services](#)

## Health Data

[Home](#) » [Environmental Public Health Tracking](#)

- [Tools & Resources](#)
- [Metadata](#)
- [Missouri EPHT Data & Statistical Guide](#) 



Data on this site is used for a range of public health policy development and program planning purposes, including hazard and disease surveillance (e.g., estimating the magnitude of a problem, analyzing trends over time, identifying high-risk groups), identifying and targeting effective interventions, and for public health research.

Data and information on this network will also serve as a "knowledge base" of critical monitoring and surveillance systems; and information resources.

### Environmental Public Health Tracking Core Conditions

- [Asthma](#)
- [Birth Defects](#)
- [Blood Lead Levels](#)
- [Cancer](#)
- [Carbon Monoxide](#)
- [Myocardial Infarction](#)
- [Reproductive Outcomes](#)
- [Vital Records](#)

### Other Environmental Health Conditions

- [Community & Infrastructure](#) **NEW**
- [Hyperthermia](#)
- [Hypothermia](#)
- [Occupational Health](#) **NEW**
- [Syndromic Surveillance](#)

[CDC's One-Stop Shop for Environmental Public Health Data](#)

## Healthy Living

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Missouri Department of Health and Senior Services  
PO Box 570  
Jefferson City, MO 65102-0570

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(toll-free) 866-628-9891

Fax: 573-526-6946

Email: [EPHTN@health.mo.gov](mailto:EPHTN@health.mo.gov)

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### Environmental Public Health Tracking Core Conditions

- [Agriculture](#)
- [Air Quality](#)
- [Water Quality](#)

### Other Environmental Health Conditions

- [Chemical Exposures](#)
- [Community & Infrastructure](#) **NEW**
- [Hazardous Substances and Sites](#)
- [Indoor Air Quality](#)
- [Mercury](#)
- [Missouri Fish Advisories](#)
- [Motor Vehicle Emissions](#)
- [Occupational Health](#) **NEW**
- [On Site Sewage Systems](#)
- [Pesticides](#)
- [Private Water Supply](#)
- [Radiation Control](#)
- [Radon](#)
- [Tobacco Smoke](#)

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## Community Data

Home » Environmental Public Health Tracking

- Tools & Resources
- Metadata
- Missouri EPHT Data & Statistical Guide 



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### U.S. Census Data

- Demographics
- Missouri 2010 Census   
(Percent Change in Population by County: 2000 to 2010)
- Number and Percent of Children Living in Poverty

## Healthy Living

- Environmental Factors
- Chronic Diseases
- Communicable Diseases
- Healthy Families
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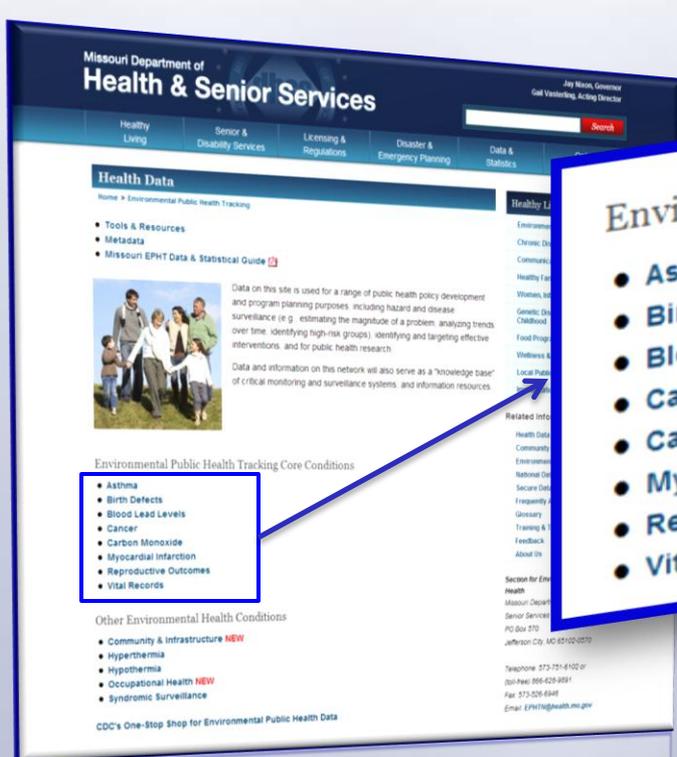
# Community Health Assessment Data & Benchmarks

Data and indicator analyses provide descriptive information on demographic and socioeconomic characteristics; they characterize important parts of health status and health determinants, such as behavior, social and physical environments, and healthcare use.

Per CDC community health assessment (CHA) indicators should be

- Methodologically sound (valid, reliable, and collected over time)
- Feasible (available or collectable)
- Meaningful (relevant, actionable, and ideally, linked to evidence-based interventions)
- Important (linked to significant disease burden or disparity in the target community)
- Jurisdictions should consider using data and indicators for the smallest geographic locations possible (e.g., county-, census block-, or zip code-level data), to enhance the identification of local assets and gaps.

# Community Health Assessment Resource: EPHT



## Environmental Public Health Tracking Core Conditions

- Asthma
- Birth Defects
- Blood Lead Levels
- Cancer
- Carbon Monoxide
- Myocardial Infarction
- Reproductive Outcomes
- Vital Records

# Community Health Assessment Resource: EPHT

**Asthma**  
Home » Environmental Public Health Tracking » asthma

Asthma is a chronic lung disorder that is marked by recurring episodes of airway obstruction (as from bronchospasm) manifested by labored breathing accompanied especially by wheezing and coughing and by a sense of constriction in the chest, and that is triggered by hyper-reactivity to various stimuli (as allergens or rapid change in air temperature).

Asthma is caused by inflammation in the airways. When an asthma attack occurs, the muscles surrounding the airways become tight and the lining of the air passages swell. This reduces the amount of air that can pass by, and can lead to wheezing sounds.



Most people with asthma have wheezing attacks separated by symptom-free periods. Some patients have long-term shortness of breath with episodes of increased shortness of breath. Still, in others, a cough may be the main symptom. Asthma attacks can last minutes to days and can become dangerous if the airflow becomes severely restricted.

In sensitive individuals, asthma symptoms can be triggered by breathing in allergen-causing substances (allergens or triggers). Triggers include pet dander, dust mites, cockroach allergens, molds, or pollens. Asthma symptoms can also be triggered by respiratory infections, exercise, cold air, tobacco smoke and other pollutants, stress, food, or drug allergies. Aspirin and other non-steroidal anti-inflammatory medications (NSAIDs) precipitate asthma in some patients.

More information is available from the department's Asthma Prevention and Control Program, at (573) 526-2222.

Available Data

**Queries**

- Crude Rate of Asthma Hospitalizations
- Count of Asthma Hospitalizations

**Data Files**

- Asthma Hospitalization Nationally Consistent Data & Measures (1999-2010) **NEW**
- Asthma Emergency Room Nationally Consistent Data & Measures (1999-2010) **NEW**
- National Asthma Data

**Queries**

- Crude Rate of Asthma Hospitalizations
- Count of Asthma Hospitalizations

**Data Files**

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# Community Health Assessment Resource: EPHT

## Vital Records

Home » Environmental Public Health Tracking » vitalrecords

Missouri birth, fetal death, death, marriage and divorce records are available through the Missouri Department of Health and Senior Services. Vital records commonly contain the name(s) of the individual(s) in the county, state, and town where the event took place.

Vital records often cover a wealth of additional information. For example, birth records include a wide range of specific medical information on both the mother and infant related to birth defects and reproductive outcomes.

Death records have valuable information that is relevant to the tracking of possible environmental public health concerns such as: cancer, carbon monoxide poisoning, myocardial infarction, and hypo/hyperthermia (climate change).

*Note:* In the State of Missouri, vital records are not open to the general public and can only be obtained by the individual, guardian, and/or other legal party. Identification is required to obtain records over 50 years old are available to the public through the Missouri Department of Health and Senior Services.

More information is available from the Department's Bureau of Vital Records.

### Available Data

Queries

- Births
- Deaths

Maps, Charts, Graphs and Tables

Maps

- Births
- Deaths

## Birth MICA

Home » Data, Surveillance Systems & Statistical Reports » Birth MICA

- Life Expectancy Data
- MICA Newsletter
- Data Training

- Definitions
- User Handbook
- Documentation

The Birth MICA provides data concerning births of Missouri residents.

To create a table, select from the following options:

- Table only - Statewide, County(ies) and/or City(ies) 1990-2013 Update 02/03/15
- Map 1990-2013 Updated 02/03/15
- Zipcode 1990-2013 Updated 02/03/15
  - Any Zipcode
  - Kansas City Zipcodes
  - Springfield Zipcodes
  - St. Louis Zipcodes

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- Number and Percent of Children Living in Poverty (as measured in 2000 census)
- Small Area Income and Poverty Estimates (1999 - 2011)
- Poverty
- Housing
- Historical Data
- Economic Census

Community & Infrastructure  
Occupational Health  
Health, Environment & Community Profiles **NEW**

Environmental Factors  
Chronic Diseases  
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Healthy Families  
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Occupational Health  
Health, Environment & Community Profiles **NEW**

# Community Health Assessment Resource: EPHT

**Health, Environment and Community Profiles**  
 Home » Environmental Public Health Tracking » Health, Environment & Community Profiles

The Health, Environment, and Community Profile reports were compiled at the request of local public health agencies (LPHAs) and local government officials. These reports are comprised of several important indicators that are of interest to the local population.

Indicators are a way of measuring community trends and health. These measures are a new and developing area of community health, looking beyond population demographics. These indicators are used to measure public health in communities by the zip codes of the most populated cities and for all counties within the state. Each indicator is a small piece of the complete community health picture. Measures of community health include health outcomes, environment, crime statistics, access to healthy food, and other basic infrastructure. When used together, they can provide a glimpse of community culture, structure, and opportunities for change. Please note that the profiles do not imply a relationship between indicators and outcomes.



While these profiles are presented now to foster public review, it is important to note that the process of creating a Health, Environment, and Community Profile is relatively new. Due to various challenges in obtaining data on a specific indicator some profiles may not be comprehensive. When more information becomes available affected profiles will be revised and updated.

Pick a County:    
 or  
 Pick a City:



Environmental Public Health Tracking Program

**BOONE Health, Environment, and Community Profile**



Environmental Public Health Tracking Program

**Columbia Health, Environment, and Community Profile**

**Health**

**Acute Myocardial Infarction (AMI)**

Indicator	Year	Columbia	MO
Average Age-Adjusted rate of hospitalizations, per 10,000 population	1999-2010	15.41	24.69
<b>Asthma</b>			
Age-Adjusted rate of emergency room visits, per 10,000 population	1999-2010	38.65	54.50
Age-Adjusted rate of hospitalizations, per 10,000 population	1999-2010	9.52	13.63
<b>Birth Defects</b>			
Rate of selected birth defects, per 10,000 live births	2001-2007	77.25	117.16
Rate of Trisomy 21 (Down's Syndrome), per 10,000 live births	2001-2007	15.71	15.58
<b>Childhood Blood Lead</b>			
<b>All Children Tested Age 0 - 72 months</b>			
Percent of children tested for blood lead levels (BLLs)	2012	18.40%	21.42%
Percent of children with blood lead levels (BLLs) between 0 and <10 µg/dL	2012	18.39%	21.22%
Percent of children with blood lead levels (BLLs) between 10 and <15 µg/dL	2012	0.01%	0.10%
Percent of children with blood lead levels (BLLs) between 15 and <20 µg/dL	2012	0.00%	0.03%
Percent of children with blood lead levels (BLLs) between 20 and <25 µg/dL	2012	0.00%	0.01%
Percent of children with blood lead levels (BLLs) between 25 and <45 µg/dL	2012	0.00%	0.01%
Percent of children with blood lead levels (BLLs) between 45 and <70 µg/dL	2012	0.00%	0.00%
Percent of children with blood lead levels (BLLs) greater than 70 µg/dL	2012	0.00%	0.00%
Percent of children with unconfirmed elevated blood lead levels (EBLLs)	2012	0.00%	0.04%
<b>Childhood Blood Lead Testing by Birth Cohort (children age 0 - 36 months)</b>			
Percent of children tested for blood lead levels (BLLs)	2009-2011	71.04%	45.33%
Percent of birth cohort with blood lead levels (BLLs) between 0 and <10 µg/dL	2009-2011	70.93%	44.38%

**Health**

**Average Age-Adjusted rate per 10,000 population**

Age-Adjusted rate of emergency room visits, per 10,000 population

Age-Adjusted rate of hospitalizations, per 10,000 population

Rate of selected birth defects

Rate of Trisomy 21 (Down's Syndrome), per 10,000 live births

**All Children Tested Age 0 - 72 months**

Percent of children tested for blood lead levels (BLLs)

Percent of children with blood lead levels (BLLs) between 0 and <10 µg/dL

Percent of children with blood lead levels (BLLs) between 10 and <15 µg/dL

Percent of children with blood lead levels (BLLs) between 15 and <20 µg/dL

Percent of children with blood lead levels (BLLs) between 20 and <25 µg/dL

Percent of children with blood lead levels (BLLs) between 25 and <45 µg/dL

Percent of children with blood lead levels (BLLs) between 45 and <70 µg/dL

Percent of children with blood lead levels (BLLs) greater than 70 µg/dL

Percent of children with unconfirmed elevated blood lead levels (EBLLs)

**Childhood Blood Lead Test**

Percent of children tested for blood lead levels (BLLs)

Percent of birth cohort with blood lead levels (BLLs) between 0 and <10 µg/dL

# Questions



# **Thank You**

## **Environmental Public Health Tracking**

e-mail: [EPHTN@health.mo.gov](mailto:EPHTN@health.mo.gov)

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