Public Health Asthma Data Sources

Technical Assistance for Brownfields Program
EPA Region 1

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UCONN HEALTH

Public Health Asthma Data Sources

Welcome & Introduction

- Sara Wakai, PhD, Assistant Professor
  - UConn Health, Center for Population Health

Acknowledgement - Technical Assistance of Brownfields Program

- Randi Mendes, PhD, Program Director
  - Civil and Environmental Engineering, UConn
  - Program Director UConn Technical Assistance for Brownfields Program (TAB). Region 1 (New England States)
- Marisa Chrysochoou, PhD, Dean of Engineering
  - School of Engineering, University of Missouri
  - Program Director UConn Technical Assistance for Brownfields Program (TAB). Region 1 (New England States)

Learning Objectives

- Characterize asthma risk factors and symptoms
- Review research on environmental exposures and asthma rates
- Explore data sources that monitor asthma rates in TAB Region 1

Asthma

Risk factors

ALLERGENS

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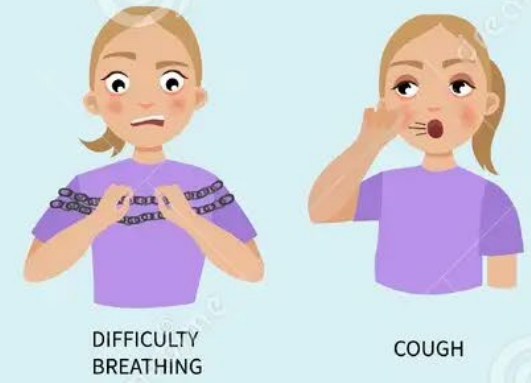
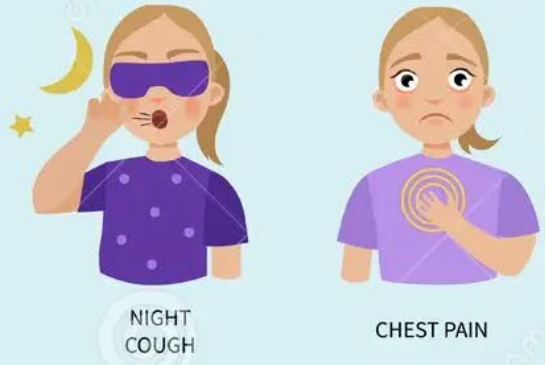
Symptoms





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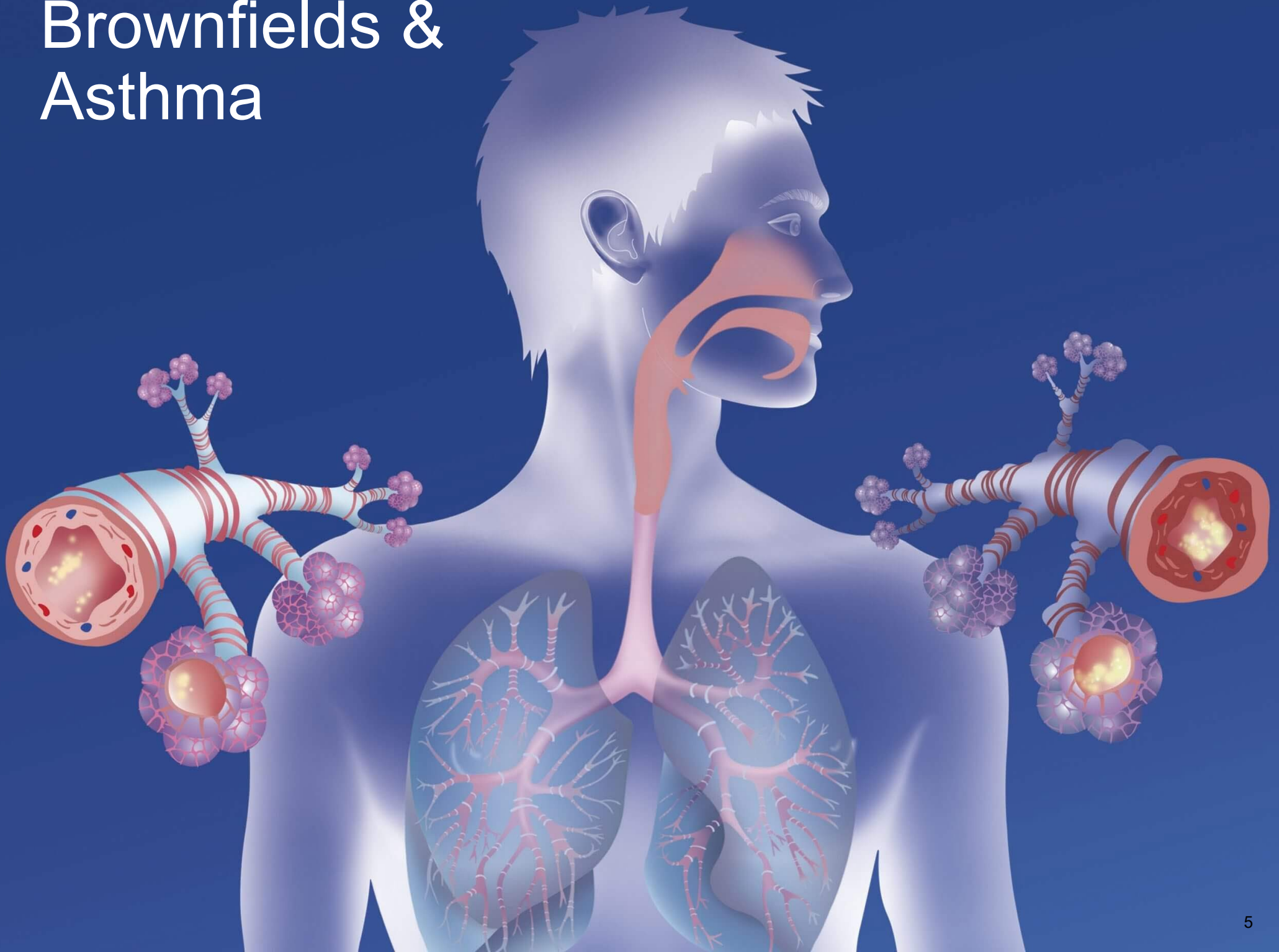
Brownfields & Asthma



National & State Asthma Surveillance Data

Location	Weighted Number with Current Asthma	Percent with Current Asthma (SE)
US	24,963,874	7.7 (.18)
CT	300,910	10.5 (.48)
ME	138,396	12.5 (.47)
MA	661,306	11.7 (.52)
NH	136,025	12.1 (.60)
RI	111,498	12.6 (.62)
VT	61, 465	11.8 (.61)

https://www.cdc.gov/asthma/most_recent_data_states.htm

State Asthma Data Sources

State	Website	Data Type
CT	Asthma Surveillance (ct.gov)	Statistics, Reports, Data Briefs & Fact Sheets, Maps, Data Links. The maps provide info at the census track level
ME	Asthma | MaineTracking Network (mainepublichealth.gov)	ED Visits, Hospitalizations, Prevalence, Town Data
MA	MEPHT | Asthma Overview (state.ma.us)	Pediatric and Adult, Prevalence, ED Visits, Hospitalization. Maps, Tables, Chart CSV Export at Town level.
NH	NH DHHS Data Portal	Pediatric & Adult, ED Visits, Hospitalization. County level data
RI	Asthma Data: Department of Health (ri.gov)	Pediatric & Adult, Prevalence, ED Visits, Hospitalization. State level data.
VT	Asthma & Lung Disease | Vermont Department of Health (healthvermont.gov)	ED Visits, Hospitalizations Reports and Data Briefs. County level data

CT.gov Home / Department of Public Health / Asthma Surveillance

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Asthma Surveillance & Epidemiology

Surveillance activities are one of five Infrastructure strategies under CDC's Cooperative Agreement (CA) on comprehensive asthma control (2014-2019). Under the Cooperative Agreement, the goal of Surveillance Infrastructure strategy is to maintain and enhance a statewide surveillance system, collect and analyze asthma-related data, and identify populations disproportionately affected by asthma.

Moreover, the purpose of the Connecticut Asthma Program (CAP), Asthma Surveillance & Epidemiology team, is to provide the most recent and reliable data on Connecticut's high-risk populations for asthma, identify asthma-related health disparities, and trends that stakeholders can use to help them guide program initiatives, rationalize intervention and develop custom local intervention/programs to target the most at-risk, to monitor progress toward Healthy People 2020 objectives and overall, to decrease the burden of asthma in Connecticut.

Statistics include prevalence rates tables for adult and children with current or lifetime asthma from the Behavioral Risk Factor Surveillance System (BRFSS); hospitalization and emergency department acute rates for adult and children from the Connecticut Hospital Information Management Exchange (CHIME) and Mortality rates based on the Connecticut Vital Records Registry data.

- https://portal.ct.gov/dph/health-education-management--surveillance/asthma/asthma-surveillance

Maine Tracking Network

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Asthma

Maine has some of the highest rates of asthma in the country. About 1 in 9 Mainers currently has asthma, compared to 1 in 12 nationally. Tracking asthma helps identify groups of people at high risk for asthma or with the highest burden of asthma and provide communities and health care providers with the data they need to develop and evaluate efforts to help prevent and control asthma.

What data are available?

Maine tracks the following measures associated with asthma:

- Emergency Department (ED) Visits
- Hospitalizations
- Prevalence of asthma diagnosis

Emergency Department Visits | Hospitalizations | Prevalence | Town Data | Tables | About the Data

Asthma Emergency Department (ED) Visits

This display shows the number and rate of asthma emergency department visits per 10,000 population. These data can tell us which counties have a higher number or rate of ED visits and if a rate is going up or down over time. To add a county to the trend chart, click a county on the map. To unselect a county, click the same county again.

Region	Measure	Year	Sex	Age Group
County	Age-Adjusted Rate	2016-2020	Both	All Ages

- https://data.mainepublichealth.gov/tracking/asthma

Mass.Gov EOHHS Skip to main content

Massachusetts Environmental Public Health Tracking

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Asthma Overview

EXPLORE PEDIATRIC ASTHMA MAPS & TABLES

EXPLORE ASTHMA HOSPITALIZATION MAPS & TABLES

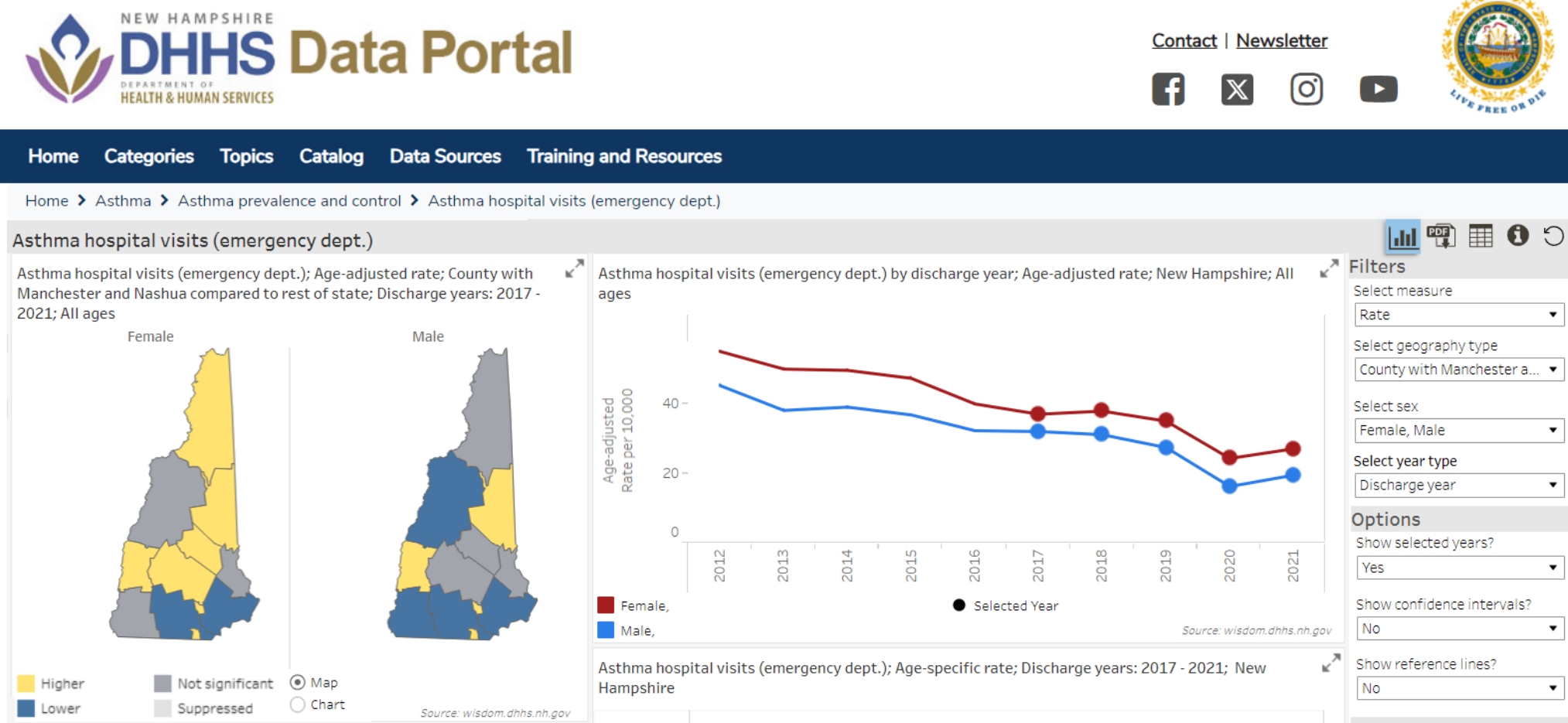
Asthma Hospitalization • Pediatric Asthma • FAQs • Related Links

Asthma is an illness that affects the respiratory tract and airways that carry oxygen into and out of the lungs. During an asthma attack, these airways constrict, resulting in wheezing and difficulty breathing. Asthma can affect people of all ages. However, it often starts in childhood and is more common in children than adults.

Asthma is a common chronic disease that continues to increase in prevalence. It is the most common chronic disease in children. The state of Massachusetts has an elevated rate of asthma compared to the national prevalence rate.

Causes of asthma are unknown. However, episodes of asthma (asthma attacks) can be triggered by certain environmental pollutants such as air pollution, mold, pets/pet dander, and dust mites. A number of studies have reported links between exposure to air pollution and asthma. Reducing exposure to these pollutants can help prevent symptoms. Other factors are also linked with asthma. Therefore, when

- https://matracking.ehs.state.ma.us/Health-Data/Asthma/index.html



- NH DHHS Data Portal
- https://wisdom.dhhs.nh.gov/wisdom/dashboard.html?topic=asthma&subtopic=asthma-prevalence-and-control&indicator=asthma-hospital-visits-(emergency-dept.)

State of Rhode Island
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Asthma

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Data Sources

Data Table
CDC Asthma Surveillance Data
CDC Behavioral Risk Factor Surveillance System

Asthma Data

ENVIRONMENTAL PUBLIC HEALTH TRACKING

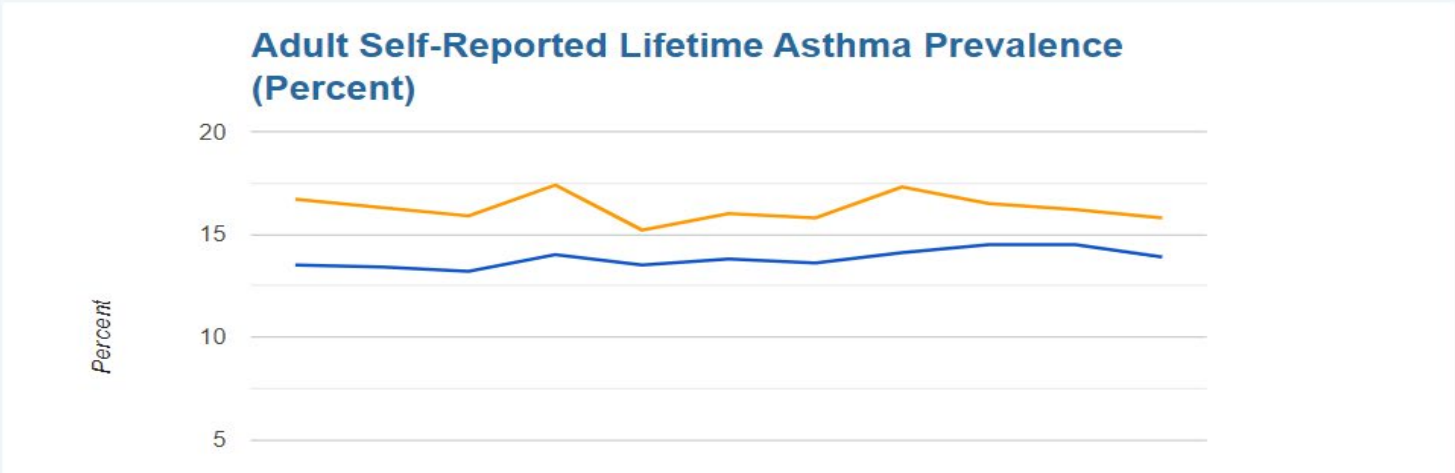
Purpose

To determine trends in asthma among Rhode Islanders.

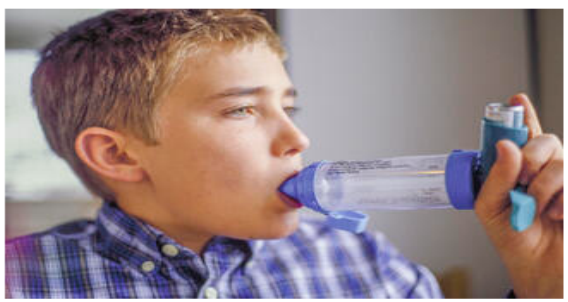
Key Information

The prevalence and healthcare use of adults and children with current asthma.

Rhode Island Numbers

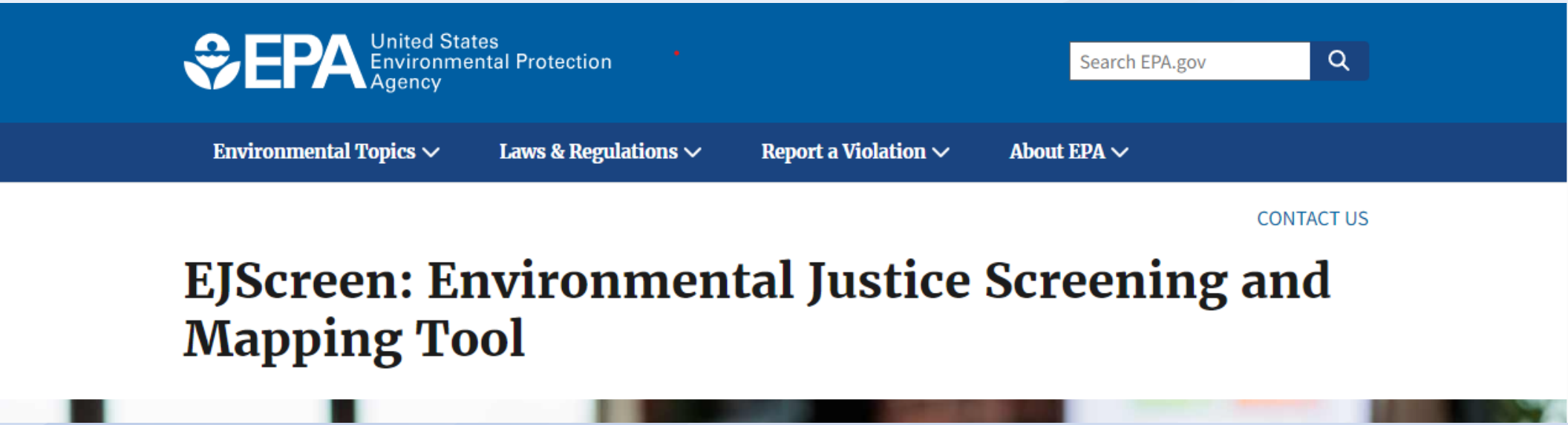


- https://health.ri.gov/data/asthma/

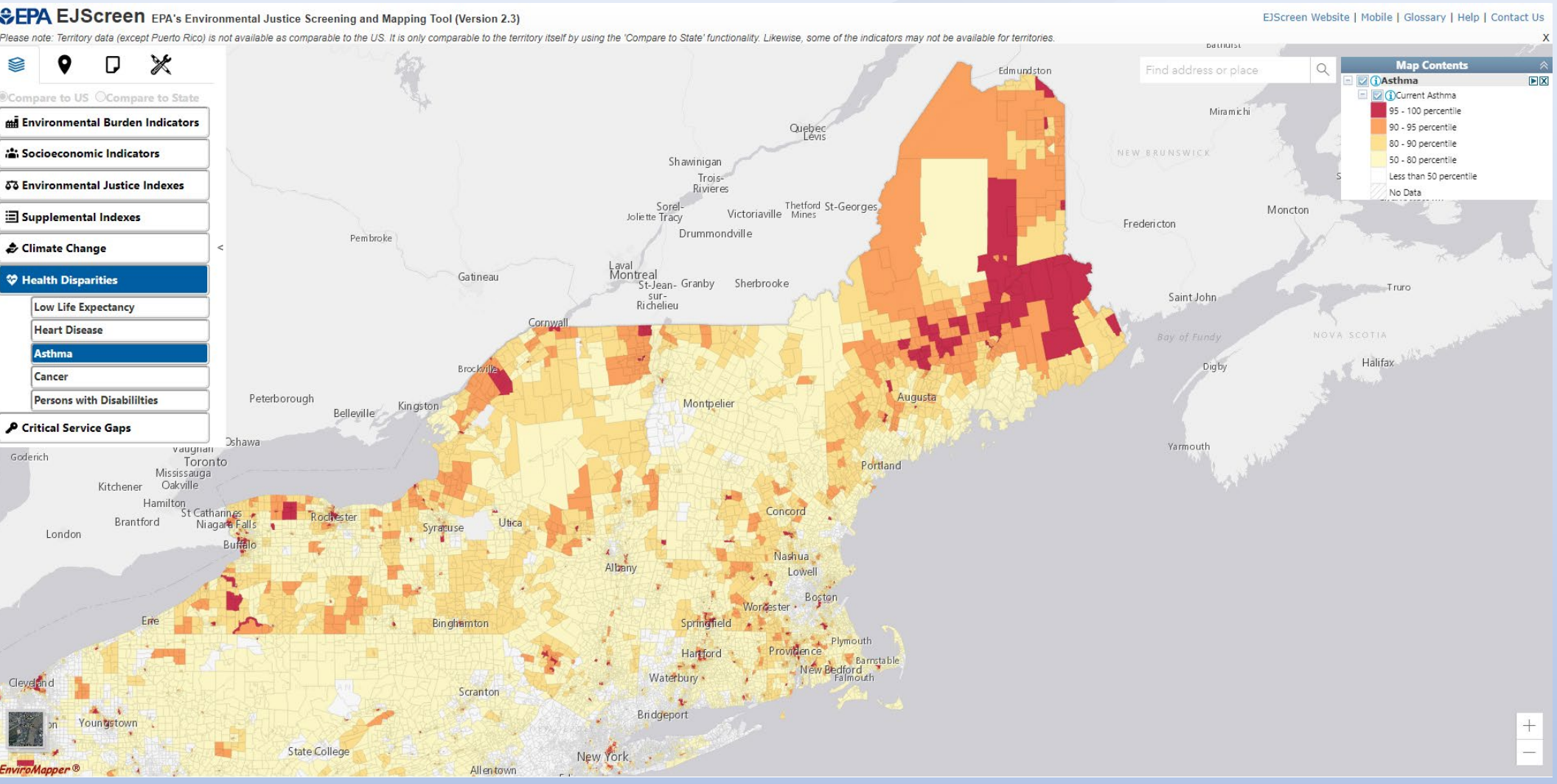


- [Asthma & Lung Disease | Vermont Department of Health (healthvermont.gov)]

EJScreen Indexes



- EJScreen: Environmental Justice Screening and Mapping Tool | US EPA


EPA EJScreen EPA's Environmental Justice Screening and Mapping Tool (Version 2.3)
EJScreen Website | Mobile | Glossary | Help | Contact Us
Please note: Territory data (except Puerto Rico) is not available as comparable to the US. It is only comparable to the territory itself by using the 'Compare to State' functionality. Likewise, some of the indicators may not be available for territories.
Compare to US
Compare to State
Environmental Burden Indicators
Socioeconomic Indicators
Environmental Justice Indexes
Supplemental Indexes
Climate Change
Health Disparities
Low Life Expectancy
Heart Disease
Asthma
Cancer
Persons with Disabililties
Critical Service Gaps
Find address or place
Map Contents
Asthma
Current Asthma
95 - 100 percentile
90 - 95 percentile
80 - 90 percentile
50 - 80 percentile
Less than 50 percentile
No Data
Edmundston
Miramichi
Quebec
Levis
Shawinigan
Trois-Rivieres
Sorel-Tracy
Joliette
Victoriaville
Thetford Mines
St-Georges
Drummondville
Fredericton
Moncton
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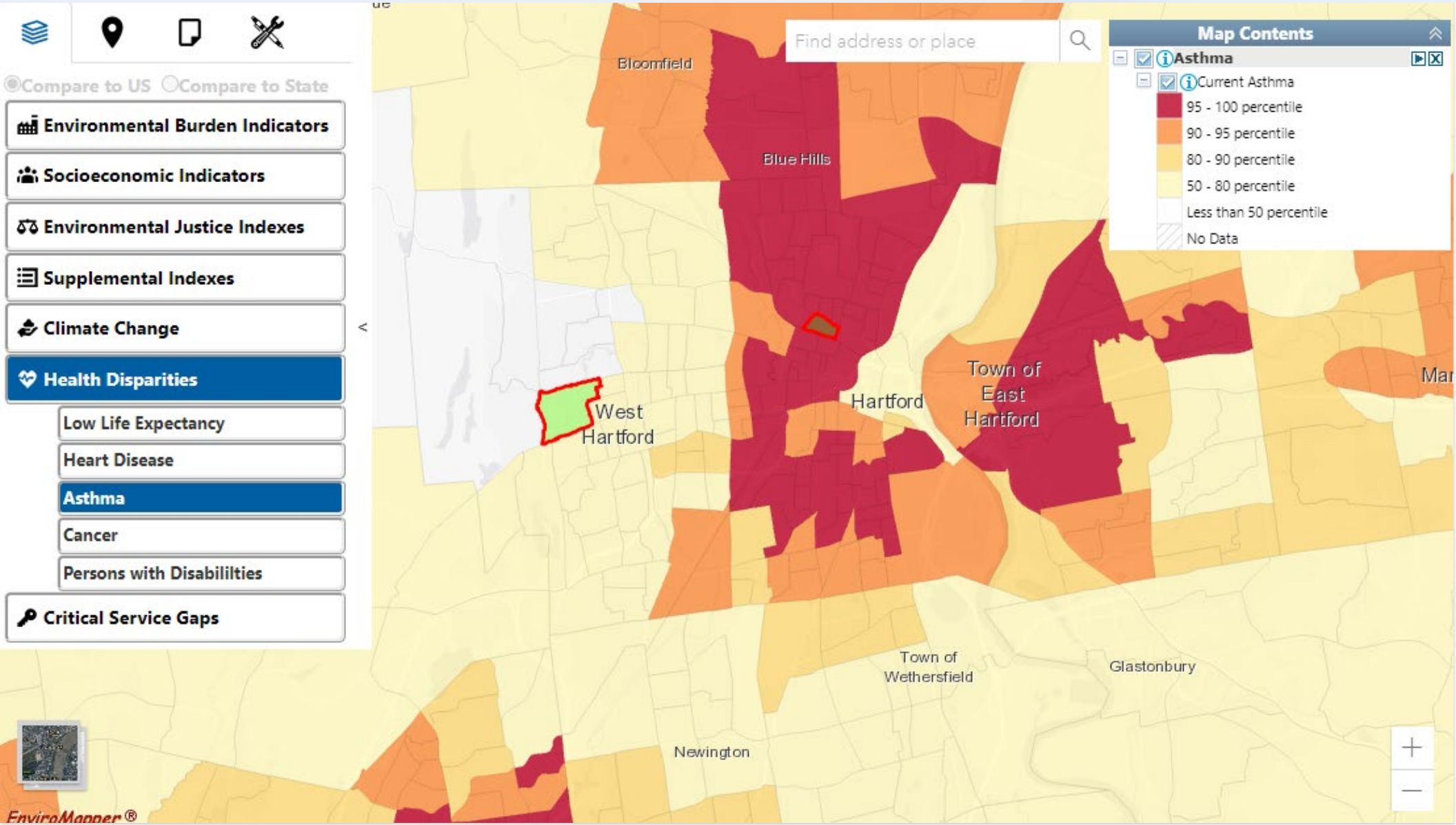
Compare to US
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Less than 50 percentile
No Data
Bloomfield
Blue Hills
West Hartford
Hartford
Town of East Hartford
Town of Wethersfield
Glastonbury
Newington
EnviroMapper®

Hartford, CT

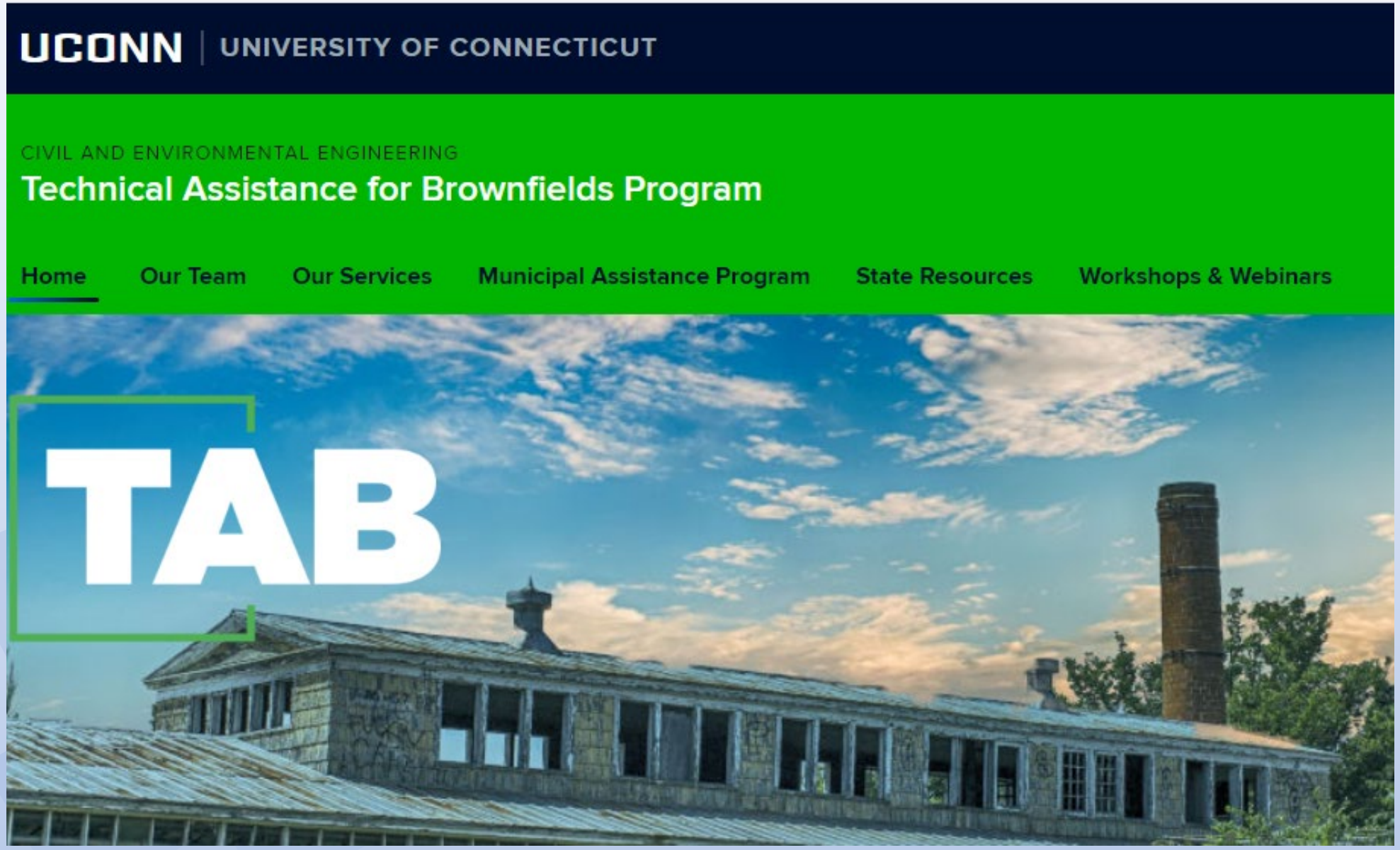
EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	22%	18%	91	20%	78
Heart Disease	5.6	5.3	64	5.8	49
Asthma	16	11.1	99	10.3	99
Cancer	4.2	7	7	6.4	11
Persons with Disabilities	11.7%	11.8%	56	13.7%	42

West Hartford, CT

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	13%	18%	8	20%	5
Heart Disease	4.5	5.3	18	5.8	25
Asthma	10.4	11.1	30	10.3	56
Cancer	7.8	7	69	6.4	79
Persons with Disabilities	4.9%	11.8%	3	13.7%	3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