Policy Discussion and Follow Up

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Figure 1.3-1. Exposure–disease–stress model for environmental health disparities. From EPA’s Integrated Science Assessment for Oxides of Nitrogen – Health Criteria EPA/600/R-08/071, July 2008
Baltimore City County, Maryland

**QUICK FACTS:**
Out of 10 people living in this county

**SEX**
5 are male & 5 are female

**AGE**
- About 2 are between the ages of 0 and 19 years
- About 3 are between the ages of 20 and 34 years
- About 2 are between the ages of 35 and 49 years
- About 3 are 50 years and older

**ETHNICITY**
- Less than 1 are Hispanic and 10 are non-Hispanic

**RACE**
- White
- Black
- Asian
- Native American

**POPULATION:** 620,961

**INCOME**
- Average Household Income
- Baltimore City County: $41,988
- Maryland: $72,482

**Residents who live below the poverty line**
- **22.7%**
  - Baltimore City County
- **10.2%**
  - Maryland

Discover the data | Learn more about this topic

† 2013 data from the National Environmental Public Health Tracking Network
EEN

EJ Indexes

Environmental Indicators

- ATA Diesel PM
- ATA Cancer Risk
- ATA Neuro H1
- ATA Respiratory H1
- affs Proximity
- adt Paint Indicator
- PL Proximity
- MF Proximity
- 3DF Proximity
- water Discharger Proximity

stonal-scale Air Toxics Assessment (NATA)
mental indicators and EJ indexes will be added into
EEN during the first full public update after the
> be-released 2011 dataset is made available.

Geographic Indicators

Environmental Data

- Data not available
- Less than 50%
- 50-60%
- 60-70%
- 70-80%
- 80-90%
- 90-95%
- 95-100%
Environmental Justice Screening Tool

EJ Indexes

Environmental Indicators
- M 2.5
- PM
- NAAQS
- Air Toxics
- Cancer Risk
- Respiratory Hi
- Neuro Hi
- Hotspots
- SDF Proximity
- Other Discharger Proximity

Demographic Indicators
- Population
- Income
- Education
- Race

Map showing data with various color codes indicating different levels of exposure or risk.

City of Baltimore, VITA, Esri, HERE, DeLorme, NGA, USGS

EnviroMapper
Air Quality: Particulate Matter

Air pollution is a leading environmental threat to human health. Particles in the air like dust, dirt, soot, and smoke are one kind of air pollution called particulate matter. Fine particulate matter, or PM$_{2.5}$, is so small that it cannot be seen in the air. Breathing in PM$_{2.5}$ may

- cause breathing problems,
- make asthma symptoms or some heart conditions worse, and
- lead to low birth weight.

The national standard for annual PM$_{2.5}$ levels is 12.0µg/m$^3$. When PM$_{2.5}$ levels are above 12, this means that air quality is more likely to affect your health.

In 2011, the annual level of PM$_{2.5}$ in Baltimore City County was 11.4µg/m$^3$. *

* Micrograms per cubic meter (µg/m$^3$)

ANNUAL AMBIENT CONCENTRATION OF PM$_{2.5}$

11.4µg/m$^3$*  

Baltimore City County, Maryland

12.0µg/m$^3$*  

Annual National Standard

*Micrograms Per Cubic Meter (µg/m$^3$)
Asthma†

Asthma is a chronic disease that affects the airways that carry oxygen in and out of the lungs. Asthma can cause

- shortness of breath,
- wheezing,
- coughing, and
- tightness in the chest.

Asthma attacks have been linked to many factors, including exposure to environmental hazards like

- allergens,
- tobacco smoke, and
- indoor and outdoor air pollution.

Asthma can be controlled by taking medication and avoiding triggers that can cause an attack.

Percent of adults who currently have asthma

- 9.0% Maryland
- 8.6% National

Percent of children who currently have asthma

- 10.3% Maryland
- 8.4% National

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† 2012 data from the National Environmental Public Health Tracking Network
Heart Attacks

The environment is one of several factors that can lead to an increased risk for heart disease. High levels of air pollution and extreme hot and cold temperatures have been linked to increases in heart disease and deaths from heart attacks. A heart attack happens when a part of the heart muscle dies or gets damaged because of reduced blood supply.

In 2011, there were

- 295 deaths from heart attacks in Baltimore City County.
- 2,034 deaths from heart attacks in Maryland.

Discover the data | Learn more about this topic

† 2011 data from the National Environmental Public Health Tracking Network
Take Action