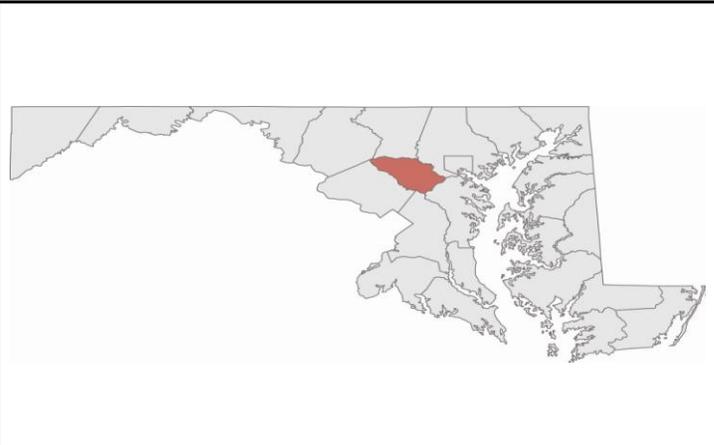


Howard County

Demographics & Social Determinants of Health (2005-2009)

| | Howard County | Maryland | | Howard County | Maryland |
|------------------------------|---------------|-----------|---|---------------|----------|
| Population | | | Household Income | | |
| Total | 274,328 | 5,637,418 | % Earning \$0-\$24,999 | 7.2 | 15.3 |
| Female | 139,350 | 2,907,051 | % Earning \$25,000-\$39,999 | 6.9 | 11.9 |
| Male | 134,978 | 2,730,367 | % Earning \$40,000-\$59,999 | 12.7 | 16.1 |
| % Race/Ethnicity: | | | % Earning \$60,000-\$74,999 | 9.4 | 10.4 |
| White | 67.6 | 60.9 | % Earning \$75,000+ | 63.8 | 46.2 |
| African American | 16.7 | 28.8 | Median Household Income | \$101,003 | \$69,475 |
| Asian | 11.3 | 4.9 | % Living in Poverty | 4.0 | 8.0 |
| Native American | 0.2 | 0.3 | Educational Attainment | | |
| Pacific Islander | 0.0 | 0.1 | % with High School Education | 94.3 | 87.5 |
| 2+ Races | 2.6 | 2.0 | % with Bachelor's Degree | 30.3 | 19.6 |
| Other | 1.6 | 3.0 |  <p>Howard County, Maryland</p> | | |
| Hispanic | 4.9 | 6.6 | | | |
| % of Population Aged: | | | | | |
| 0 - 4 | 6.5 | 6.7 | | | |
| 5 - 9 | 7.2 | 6.4 | | | |
| 10 - 14 | 8.0 | 6.8 | | | |
| 15 - 17 | 4.9 | 4.3 | | | |
| 18 - 24 | 8.2 | 9.4 | | | |
| 25 - 44 | 27.9 | 28.1 | | | |
| 45 - 64 | 28.2 | 26.6 | | | |
| 65+ | 9.3 | 11.8 | | | |
| Households | | | | | |
| Total | 98,994 | 2,092,538 | | | |
| % Families with Children | 69.6 | 57.5 | | | |



These county profiles were developed for Maryland and its local jurisdictions. The profiles give a picture of Maryland, focusing on social, demographic, and environmental factors that are thought to be important determinants of health. When looking at the data, some things to consider are the direction of change, the speed of change, and the size of the measure.

[Click here for more information about the data and measures.](#)

For more information about environmental public health tracking go to:

[The Environmental Public Health Tracking Site](#)

Major Health Indicators (2008)^a

| | Howard County | Maryland |
|---|---------------|----------|
| Overall Health | | |
| Life Expectancy at Birth | 81.0 | 78.1 |
| % With Activity Limitations | 19.9 | 20.5 |
| % With Fair or Poor Health | 8.4 | 12.5 |
| % Experiencing Unhealthy Days | 23.6 | 22.2 |
| All Cause Mortality ** | 676.0 | 780.8 |
| Maternal/Child Health | | |
| Infant Mortality Rate * | 3.8 | 6.5 |
| % Low Birth Weight (Singleton) | 5.2 | 4.9 |
| % Low Birth Weight (All) | 6.9 | 6.7 |
| % Very Low Birth Weight (Singleton) | 0.8 | 1.0 |
| % Very Low Birth Weight (All) | 1.2 | 1.3 |
| % Pre-Term Births | 10.3 | 9.5 |
| Teen Birth Rate * | 13.8 | 25.9 |
| % Mothers Smoking During Pregnancy | 2.1 | 6.2 |
| % Mothers with Late or No Prenatal Care | 1.3 | 4.2 |
| Communicable Disease | | |
| Tuberculosis Incidence ** | 4.0 | 4.9 |
| Chlamydia Rate ** | 173.9 | 437.9 |
| Gonorrhea Rate ** | 26.1 | 118.3 |
| Rate of HIV/AIDS Cases ** | 13.0 | 46.6 |
| Number of HIV Deaths | 5 | 431 |
| Number of Septicemia Deaths | 32 | 988 |

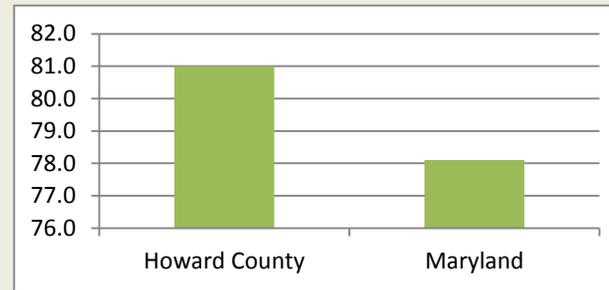


Fig. 1 Life Expectancy at Birth



Fig. 2 Percent of Mothers Smoking During their Pregnancies



These are some of the most basic measures of health across the state. Many of these are also included in

[Maryland's State Health Improvement Process \(SHIP\)](#)

For more information about environmental public health tracking go to:

[The Environmental Public Health Tracking Site](#)

^a 2008 Data was used whenever available. Please refer to metadata for additional information.

* Rate per 1,000 Births

** Rate per 100,000 Residents

Health Outcomes/Risk Factors (2008)^a

| | Howard County | Maryland |
|--|---------------|----------|
| Mental Health | | |
| Number of Suicide Deaths | 20 | 493 |
| % with Anxiety Disorders | 12.4 | 12.6 |
| Substance Abuse | | |
| Number of Alcohol-Induced Deaths | 10 | 407 |
| % Binge Drinkers | 10.7 | 13.8 |
| Environmental Health | | |
| % Children Tested for Presence of Blood Lead | 10.1 | 22.4 |
| % Children With Lead Poisoning | 0.2 | 0.7 |
| Health Insurance | | |
| % Without Health Insurance (Adults) | 7.4 | NA |
| % Without Health Insurance (Children) | 2.4 | NA |
| Unmet Medical Need | | |
| % in Last Year that Could Not Afford to See a Doctor | 6.7 | 10.4 |
| Oral Health | | |
| % That did not see a Dentist in the Last Year | 23.0 | 28.6 |



Fig. 3: Percent of children tested for elevated blood lead levels

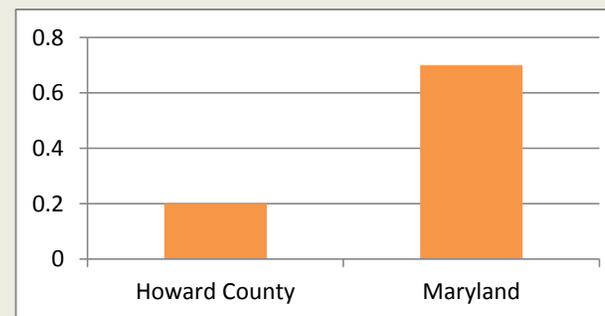


Fig. 4: Percent of tested children with elevated blood lead levels



These represent some important determinants of health, including mental health, substance abuse, and access to health services. Many of these are part of the [State Health Improvement Process \(SHIP\)](#)

For more information about environmental public health tracking go to:

[The Environmental Public Health Tracking Site](#)

^a 2008 Data was used whenever available. Please refer to metadata for additional information.

* Rate per 1,000 Births

** Rate per 100,000 Residents

Risk Factors (2008)^a

| | Howard County | Maryland |
|--|---------------|----------|
| Unhealthy Weight | | |
| % Overweight (Adults) | 37.2 | 36.7 |
| % Obese (Adults) | 23.8 | 26.7 |
| % Overweight (School-Age) | 17.0 | 17.7 |
| % Obese (School-Age) | 14.3 | 22.3 |
| Smokers | | |
| % Adults that Smoke | 6.5 | 14.9 |
| % Middle Schoolers that Smoke | 3.4 | 5.2 |
| % High Schoolers that Smoke | 8.1 | 7.0 |
| Injury and Violence | | |
| Number of Homicide Deaths | 8 | 528 |
| Number of Aggravated Assaults | 406 | 20,571 |
| Rate of Motor Vehicle Injury Hospitalizations ** | 76.0 | 109.8 |
| Number of Motor Vehicle Deaths | 18 | 643 |
| Injury-Related ER Visits ** | 6,483 | 9,135 |
| Injury-Related Hospitalizations ** | 660 | 1,068 |
| Injury-Related Deaths ** | 35.3 | 63.0 |
| Physical Inactivity and Built Environment | | |
| % Adults Not Meeting CDC Recommendation for Activity | 63.4 | 64.4 |
| % With No Physical Activity | 14.4 | 24.0 |
| Access to Recreational Facilities ** | 15 | 12 |
| % With Access to Healthy Foods | 70.0 | 62.0 |

^a 2008 Data was used whenever available. Please refer to metadata for additional information.

** Rate per 100,000 Residents



Fig. 5: Percent of population with access to healthy foods

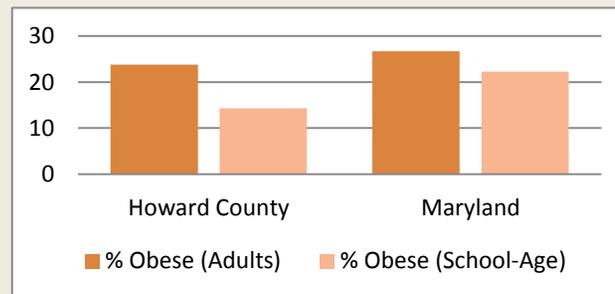


Fig. 6: Percent of children and adults that are obese



The indicators on this page might be thought of as related in some ways to the built environment. While other factors such as personal behaviors must also be considered, there are relationships between the built environment and some important health outcomes.

For more information about environmental public health tracking go to:

[The Environmental Public Health Tracking Site](#)

Health Outcomes (2008)^a

| | Howard County | Maryland |
|---|---------------|----------|
| Built Environment, cont. | | |
| <i>Percent Who Get to Work By:</i> | | |
| Single Occupancy Vehicle | 80.8 | 73.2 |
| Active Transport (Walking, Biking) | 1.4 | 2.8 |
| Public Transportation | 3.8 | 8.7 |
| Chronic Disease | | |
| Number of Colorectal Cancer Deaths | 40 | 964 |
| Number of Breast Cancer Deaths | 40 | 840 |
| Number of Heart Disease Deaths | 356 | 11,217 |
| Number of Stroke Deaths | 83 | 2,250 |
| % with Diabetes | 5.9 | 8.7 |
| Diabetes Deaths ** | 17.8 | 22.4 |
| % Children with Asthma | 18.8 | 14.3 |
| Number of Childhood Asthma Hospitalizations | 68 | 1,318 |
| % Adults with Asthma | 13.3 | 14.3 |
| Number of Adult Asthma Hospitalizations | 103 | 3,746 |
| Cancer Screening | | |
| % Adult Women that have Received a Mammogram | 65.2 | 64.2 |
| % Testing for Colorectal Cancer in Past 2 Years | 30.9 | 25.0 |

^a 2008 Data was used whenever available. Please refer to metadata for additional information.

* Rate per 1,000 Births

** Rate per 100,000 Residents



Fig. 7: Percent with Diabetes

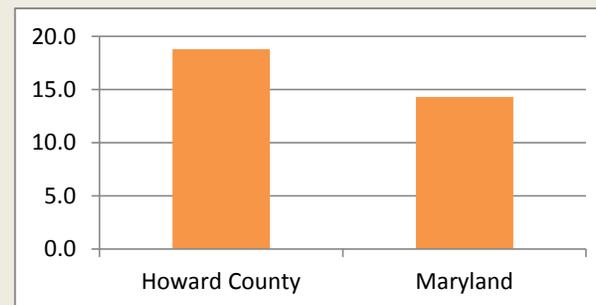


Fig. 8: Percent of children with asthma



Prevention and reduction of chronic diseases requires a combination of approaches, including improvements in screening, changes in personal behaviors, and changes in environmental conditions.

For more information about environmental public health tracking go to:

[The Environmental Public Health Tracking Site](#)

Physical and Environmental Determinants (2008)^a

| | Howard County | Maryland |
|--|---------------|----------|
| Immunizations | | |
| Average % of Kindergarten Students Immunized | 99.3 | 99.3 |
| % Adults Receiving Flu Shots | 42.4 | 38.5 |
| % Adults Receiving Pneumonia Shots | 22.8 | 24.7 |
| Environmental Exposure | | |
| Ozone Days | 15 | 16 |
| Particulate Matter Days | 0 | 4 |
| Water Quality- Arsenic † | NA | NA |
| Water Quality- Nitrates ‡ | NA | NA |
| Water Quality- Trihalomethane † | NA | NA |
| Water Quality- Haloecetic Acids † | NA | NA |

^a 2008 Data was used whenever available. Please refer to metadata for additional information.

† Parts per Billion

‡ Parts per Million



Some connections between the environment and health are well known, such as that between asthma and air pollution. However, air pollution has also been shown to affect overall death rates. Data and information collected by public health agencies is being used by researchers to increase our understanding of these complicated relationships and design cost-effective prevention strategies.

Funding for this county indicators project was made possible by cooperative agreement award 5U38EH000194-05 from the Centers for Disease Control and Prevention to the Maryland Department of Health and Mental Hygiene. The computed indicators and interpretation of the various measures do not necessarily reflect the official policies of the CDC or the Department of Health and Human Services, nor does any reference to trade names, commercial practices, or organizations imply endorsement by the U.S. Government.

For more information about environmental public health tracking go to:

[The Environmental Public Health Tracking Site](#)