Rockville City Health Capstone Project

Data 205

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Is Rockville city a healthy city?
Research goals and questions areas

- **What makes a healthy city**

- Categories to define a healthy city

    - Physical environment: Geography and conditions of the area

    - Social Environment: Diversity and community connections

    - Economic Factor: Incomes and affor

    - Governance and policies: Voter access and health policies

    - Health scores of community: Life expectancy and health rates

    - Education: HS graduation rates and college rates

    - Crime: Crime rates and area maps

    - Health Care Access: Health locations and uninsured rates

Data sites used

- rockvillemd.gov

- datamontgomerycountymd.gov

- countyhealthrankings.org

- cityhealthdashboard.com
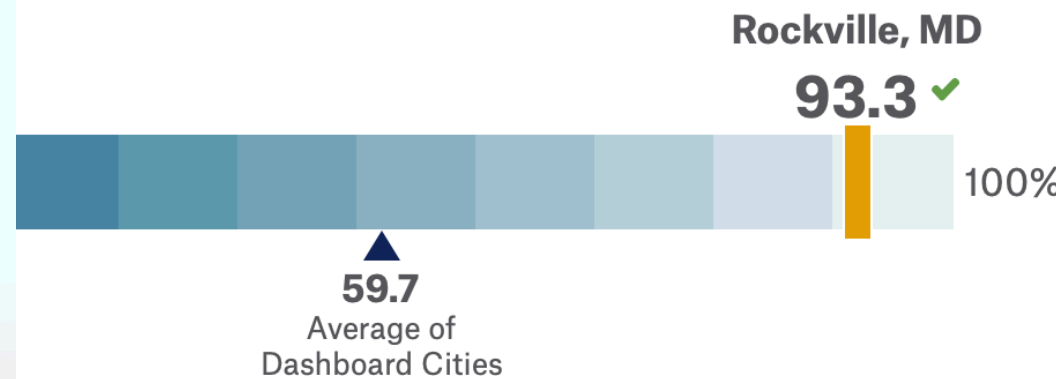
- neighborhoodscout.com/md/rockville

How many of you live in or close to Rockville city?

A strong health measure of a city is access to green spaces or parks to be
able to go on walks, get fresh air, and spend time with friends

Park Access in 2023

ion living within a 10 minute walk of green space   MORE AB

nated **93.3%** of residents with park access in **2023**, compar
board's cities.

Rockville, MD
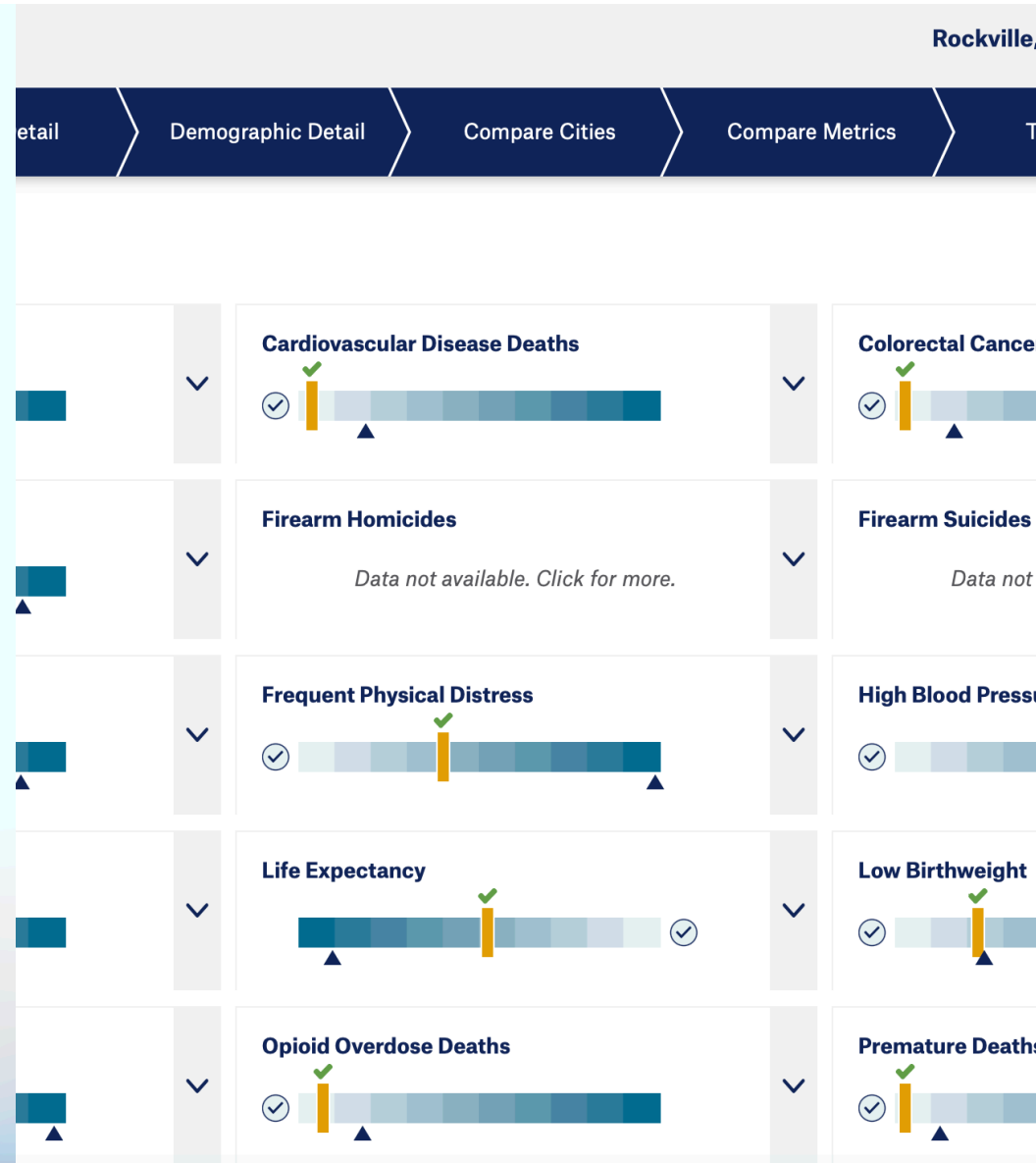
93.3 ✓

100%

▲
59.7
Average of
Dashboard Cities

than average of Dashboard Cities

alues: ❓   Rockville, MD Census Tracts ⌄

Additional health metrics of Rockville

Compared to other cities of USA

etail | Demographic Detail | Compare Cities | Compare Metrics | T

Cardiovascular Disease Deaths

Colorectal Cance

Firearm Homicides

Data not available. Click for more.

Firearm Suicides

Data not

Frequent Physical Distress

High Blood Press

Life Expectancy

Low Birthweight

Opioid Overdose Deaths

Premature Deaths

Tools + Methods

- The main tool to present the data will be Power BI, a business analytics program to help present data from multiple sources in one interactive dashboard.

- Using Maps, rank comparisons, and dataset analysis , we will see health scores, ranks, and source data.

Risks + Mitigations

- If the data shows that Rockville city is not a healthy city, then I would have to share with the sponsors of Rockville city that city is not ideal and they may not want to add this dashboard to there site.

- Biggest risk is that I will not have time to learn Power BI and be able to export the data into a proper presentation/dashboard. I can still however answer the health questions of the city and maybe continue after project due date to complete dashboard in Power BI.

- Some of the data is older than 5 years due to it coming from national census data and may have less value to the current population, but I can limit the older data so that answers about current health are not impacted as much.

Milestones

Despite the constant evolution of this project certain dates and milestones need to be met to stay on schedule!

Rockville City Health Capstone Project Timeline

Milestones	Start Date	Due Date
Project Plan Presentation	03/01/2025	03/26/2025
EDA/Progress Report	03/02/2025	04/17/2025
Project Draft	03/03/2025	04/29/2025
Final Draft / Practice Presentation	03/04/2025	05/06/2025
Final Report / Presentation	03/05/2025	05/12/2025