

Visualizing Single-Race Population Estimates in Tableau



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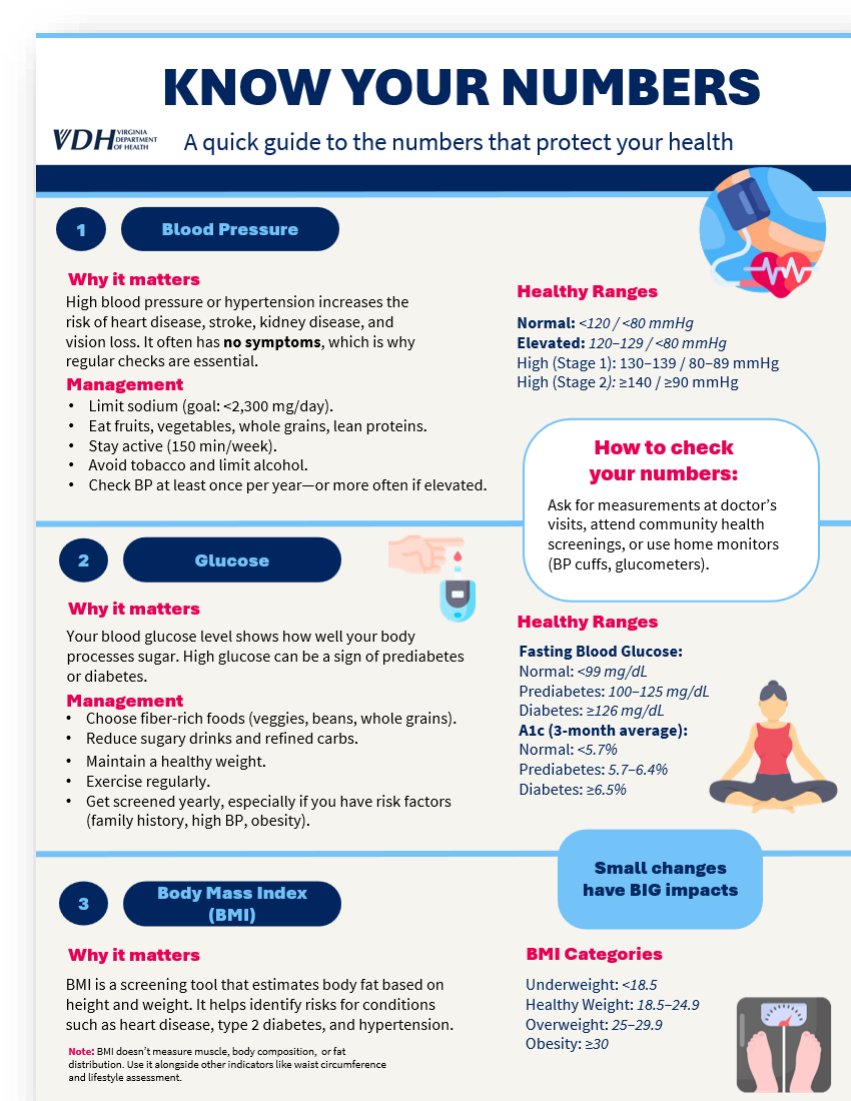


Project at a Glance

This project creates a VDH-branded Tableau dashboard that **visualizes** Virginia's single-race population estimates from the Open Data Portal.

By highlighting **demographic** patterns across race, geography, and time, the dashboard helps viewers quickly **understand** statewide population **differences** and supports VDH in sharing key **public-health** insights.

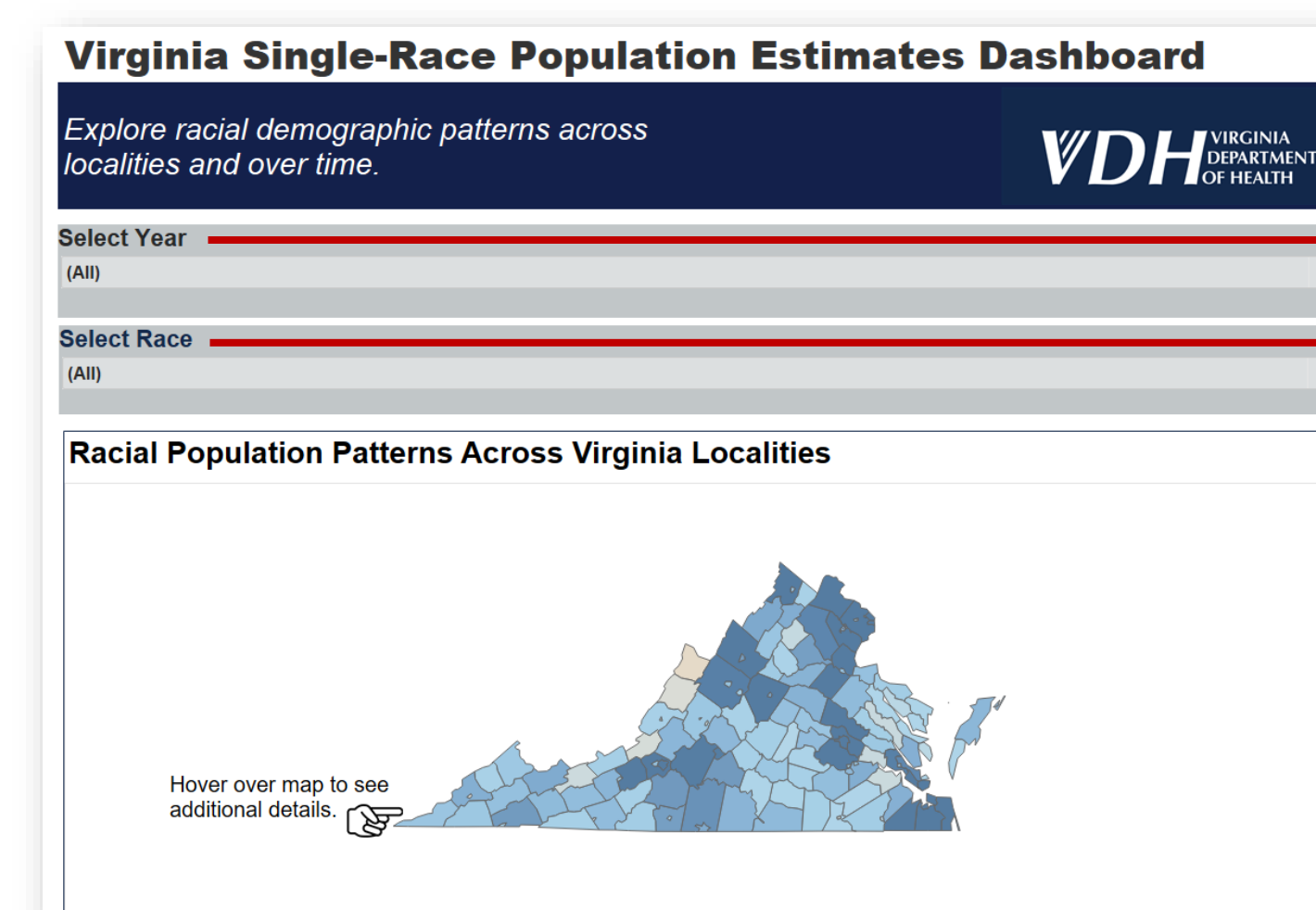
Additional Outputs



Know Your Numbers Graphic I made after a visit to Mosby Resource Center based on observations and conversations I had.

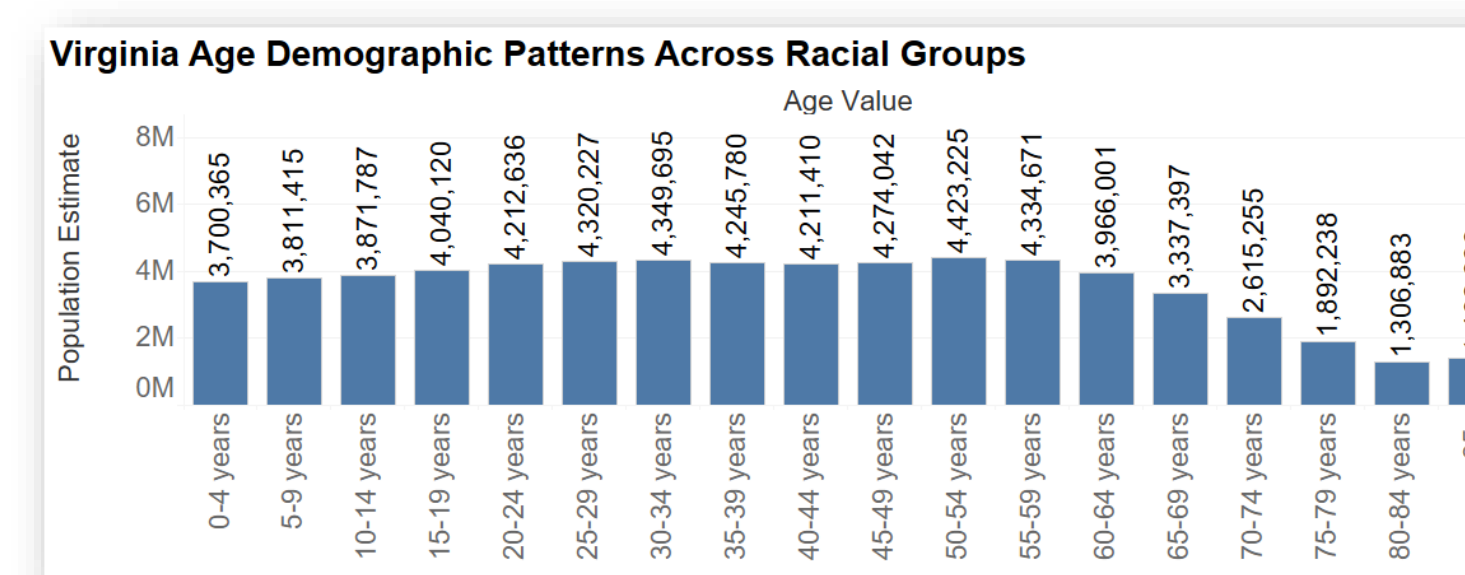
- VA Intern keynote speaker on the perspective of internships and bridging the gap between classrooms and communities.
- Survey redesign in REDCap for OIM to get an understanding of various processes.

Outputs

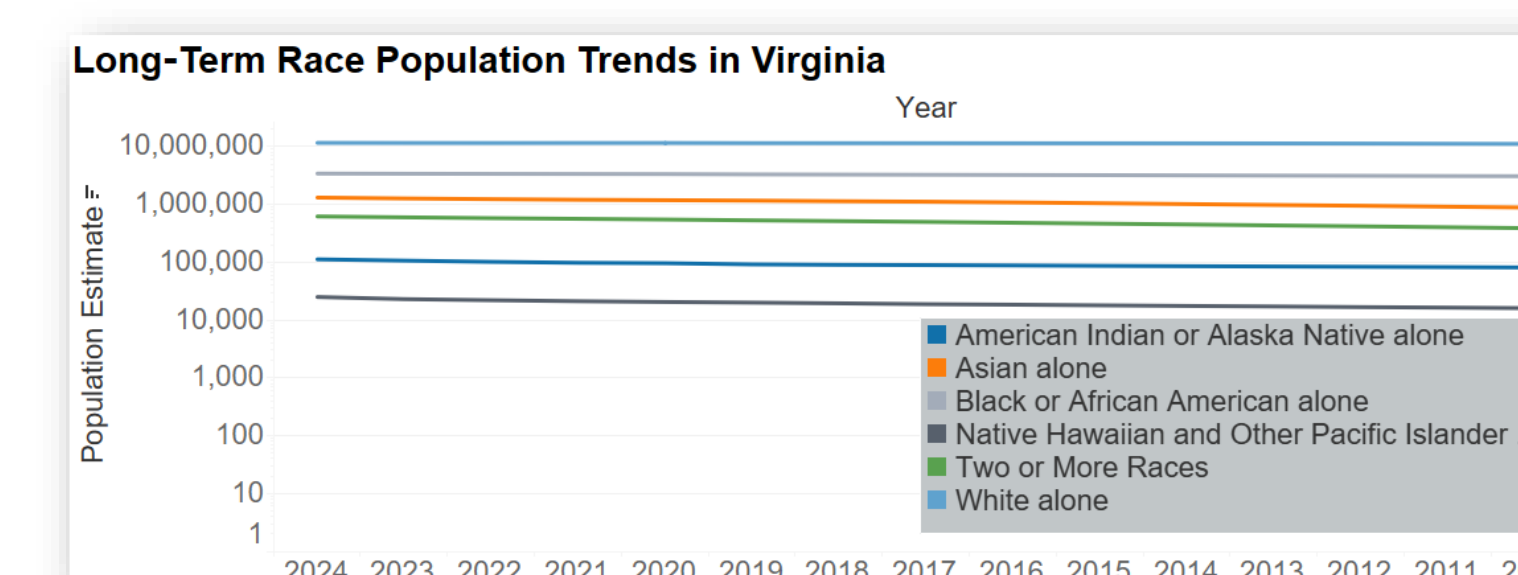


Year and race filters applicable to all sheets within the dashboard.

The map of Virginia shows racial population patterns across Virginia counties and cities, with color shading representing population differences.



A bar chart illustrating Virginia's population estimates across age groups, highlighting how population size varies from early childhood to older adulthood.

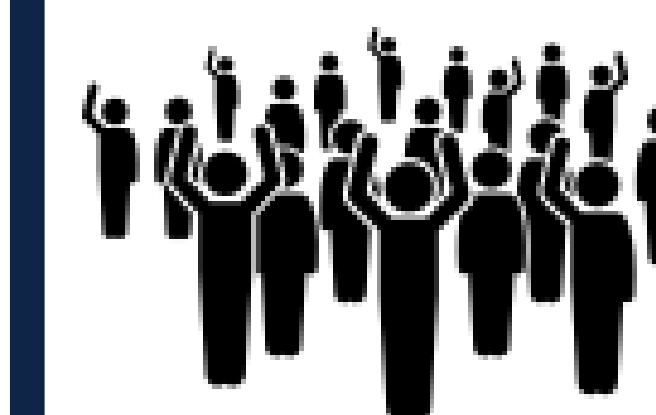


A multi-line chart displaying population trends for several racial groups in Virginia from 2010 to 2024.

Gaps Identified

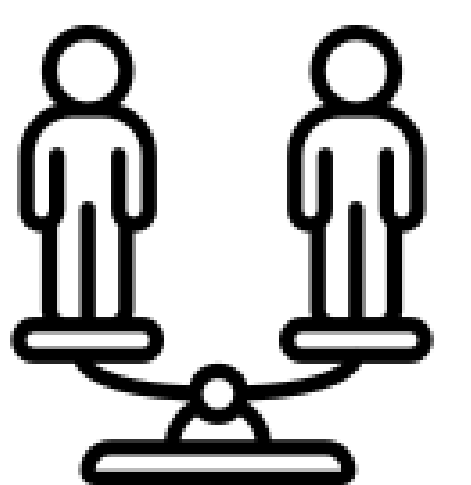
- Single-race population estimates may oversimplify racial identity and do not capture multiracial Virginians, limiting the completeness of demographic insights.
- Smaller localities may have unstable or higher variable population counts, making it harder to interpret trends accurately.
- Visualizing only race, geography, and time may leave out other important public-health factors (income, age, chronic conditions, and other SDOH) that influence disparities but aren't included in this dataset.
- The dashboard cannot normalize data, so showing raw counts instead of percentages can be misleading when comparing localities of very different sizes.

Key Takeaways



Identification of demographic patterns that can support public-health planning, outreach, and resource allocation across Virginia.

The dashboard clearly communicates population differences linked to health disparities, helping stakeholders understand which communities may face greater health challenges.



Using clear, accessible visuals helps public-health staff and community members quickly interpret demographic trends and apply them to real-world needs.

Acknowledgements

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