

# KEEP COOL DC

The District of Columbia's Heat Adaptation Strategy



★ ★ ★ DEPARTMENT  
OF ENERGY &  
ENVIRONMENT

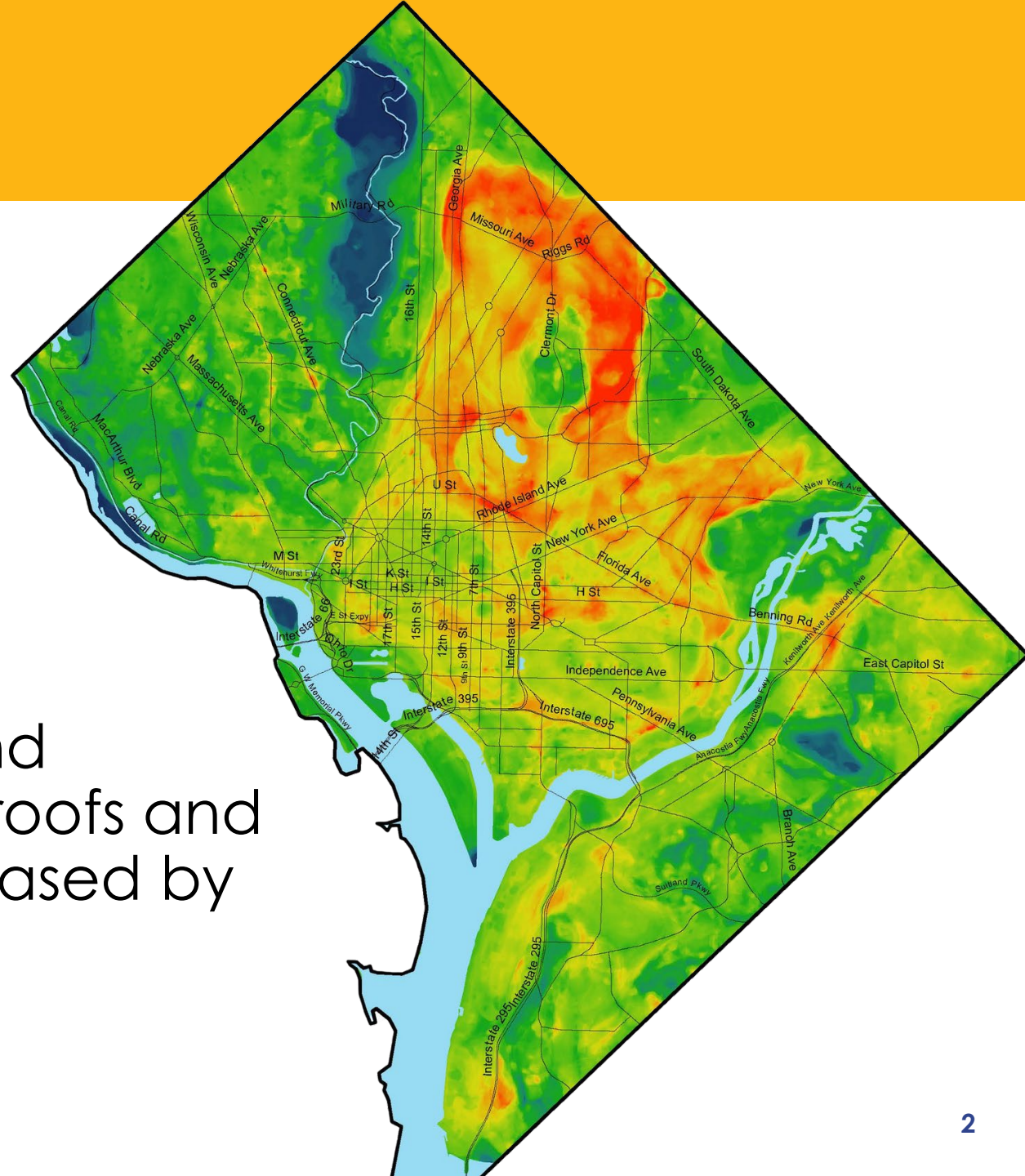
WE ARE WASHINGTON  
GOVERNMENT OF THE  
DISTRICT OF COLUMBIA  
MURIEL BOWSER, MAYOR

October 31, 2022

# Urban Heat Island Effect

Certain neighborhoods in the District are up to **16.5°F warmer** than others.

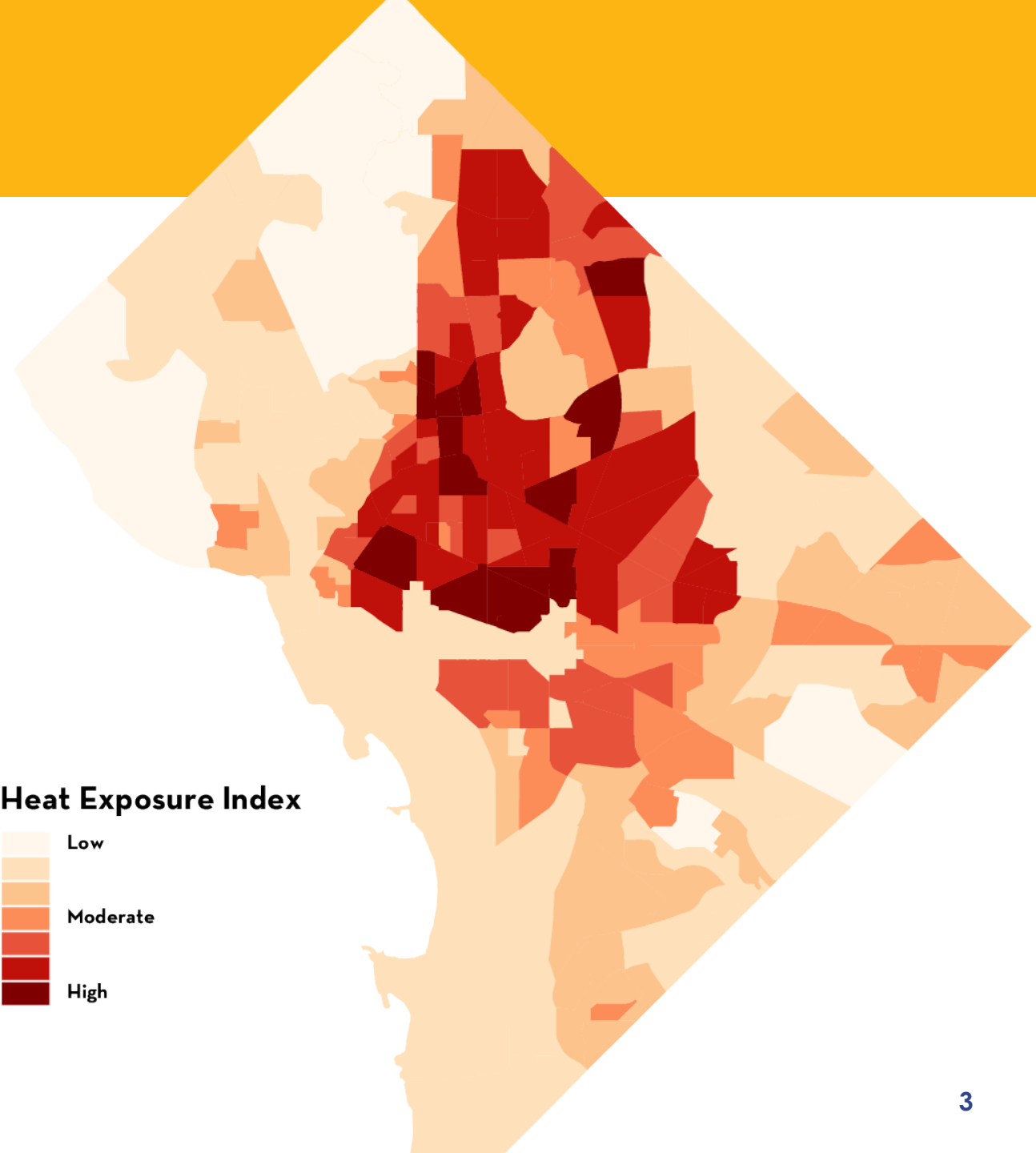
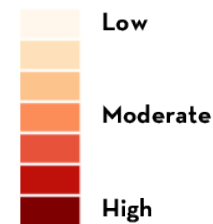
**UHI Effect:** Sunlight is absorbed and retained by paved surfaces and roofs and combined with “waste heat” released by air conditioners, vehicles, etc.



# Heat Exposure

**Air temperature, tree canopy cover, and impervious surface area** impact which areas of the District are most exposed to heat.

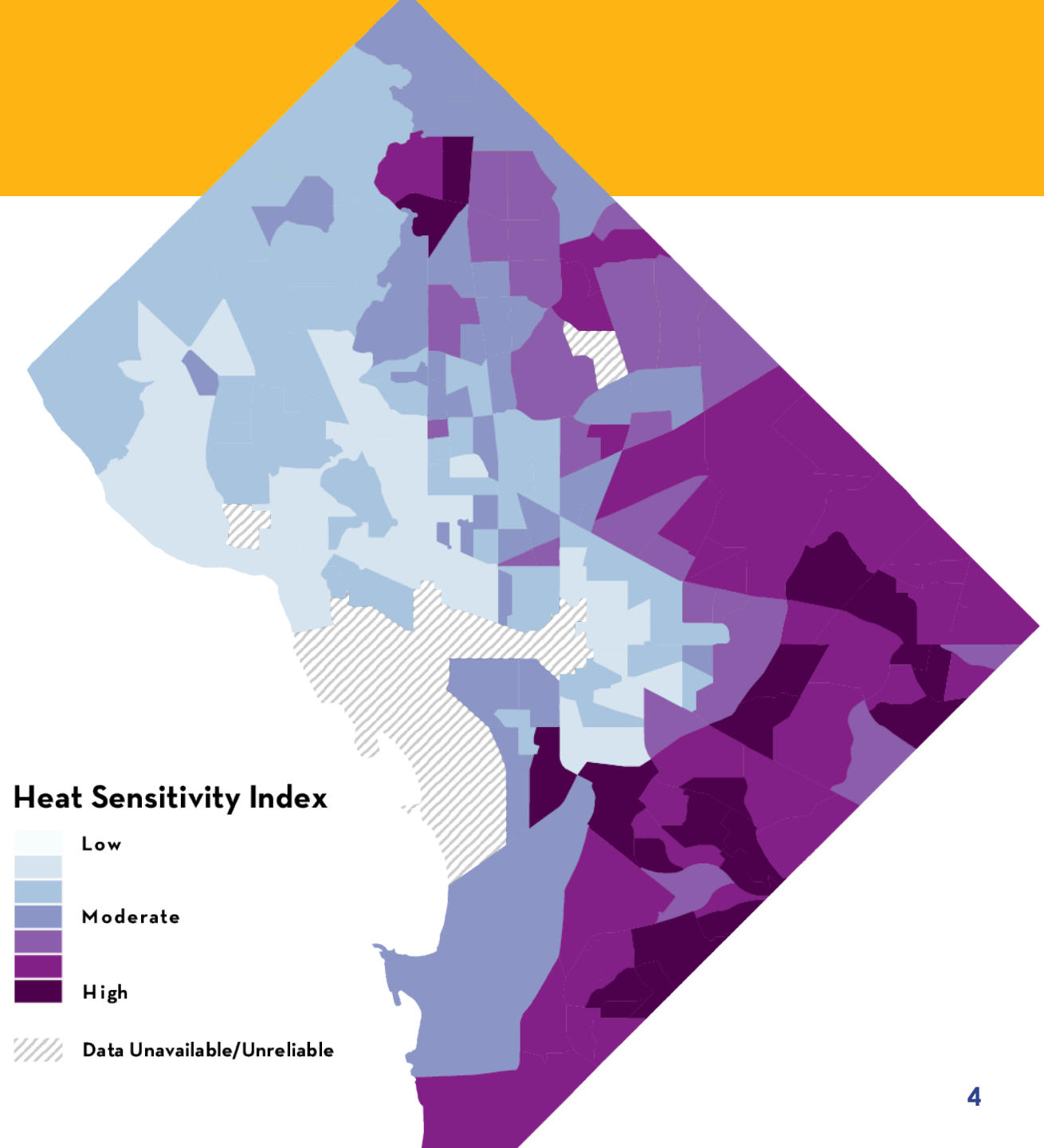
Heat Exposure Index



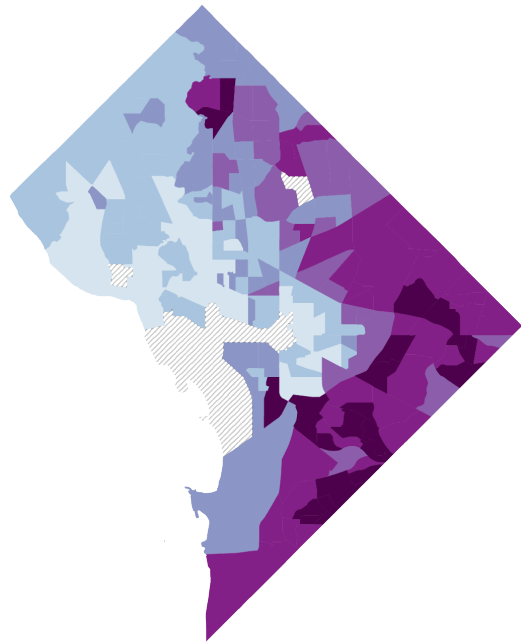
# Heat Sensitivity

## Socio-economic, demographic and health variables can increase sensitivity to heat exposure.

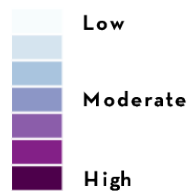
- Older adults (65+)
- Infants and children
- People with disabilities
- People with chronic illnesses
- Pregnant women
- People suffering from obesity
- People who are alone or bedridden
- People experiencing homelessness
- People who lack AC
- People who work or train outdoors



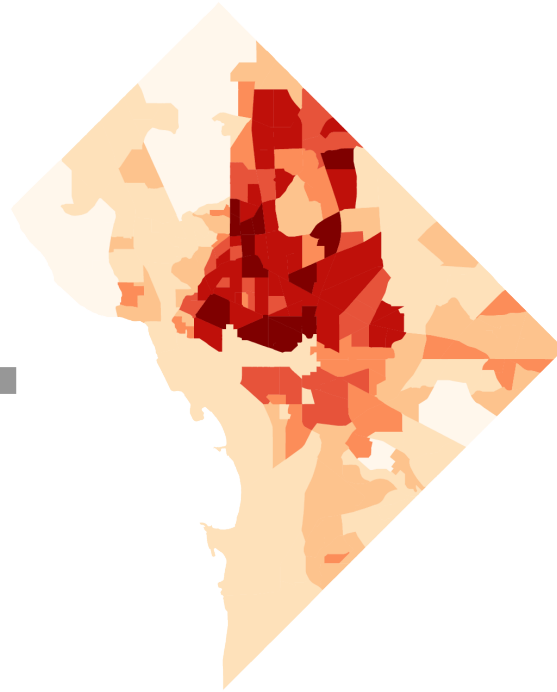
# Heat Sensitivity-Exposure



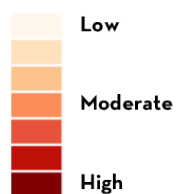
Heat Sensitivity Index



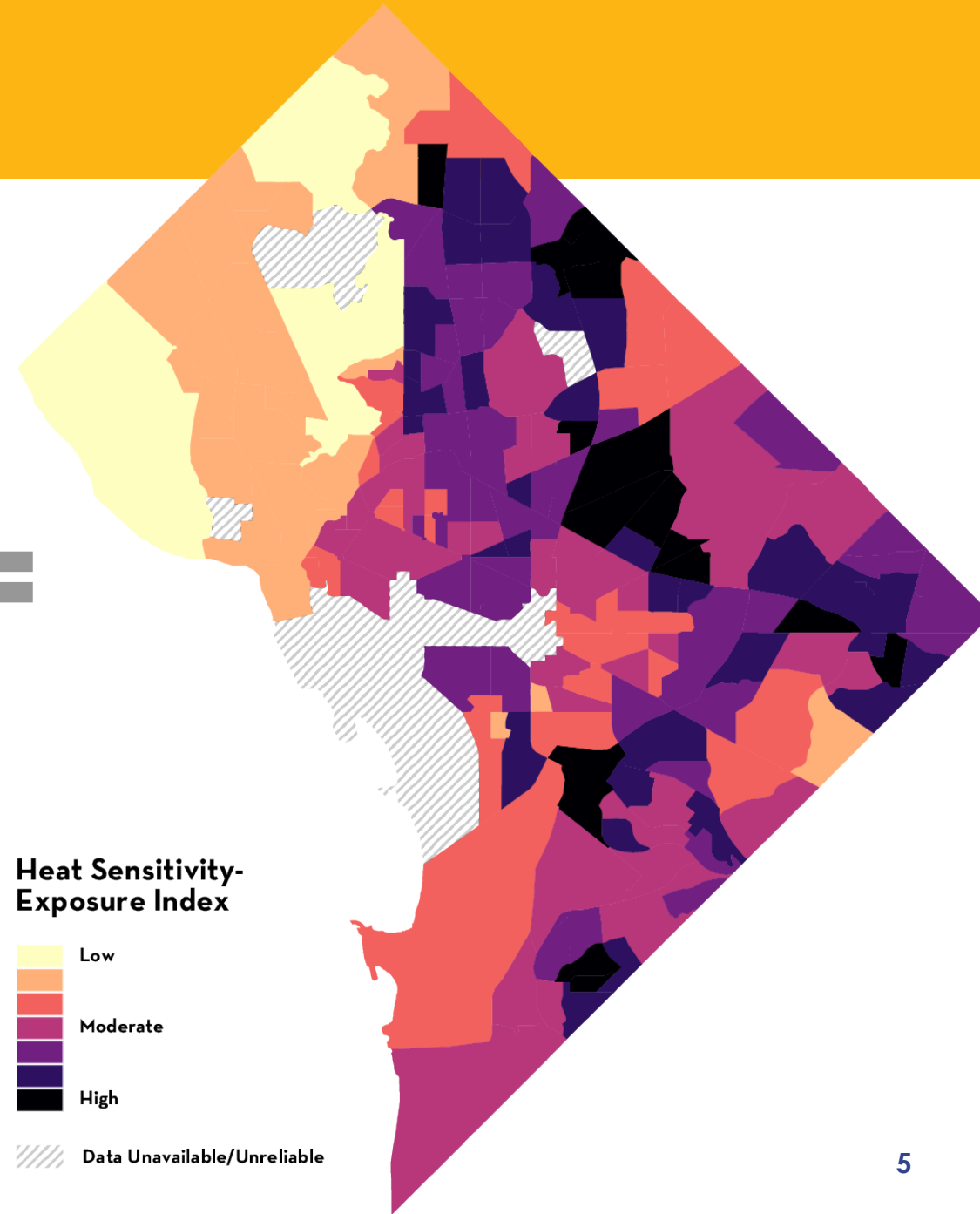
+



Heat Exposure Index



=



Heat Sensitivity-Exposure Index

