Vegetation & Heat Islands in Lexington

August 28, 2024 was a hot day in the city. Parking lots and built areas in Downtown and in North Lexington endured surface temperatures exceeding 113° F.

This map serves as a tool to help identify the complex relationship between the built environment, green infrastructure, and heat pockets. It helps identify areas underserved with green areas & trees canopy. While trees alone cannot solve the issue by themselves, they form an important pillar of heat mitigation strategies.

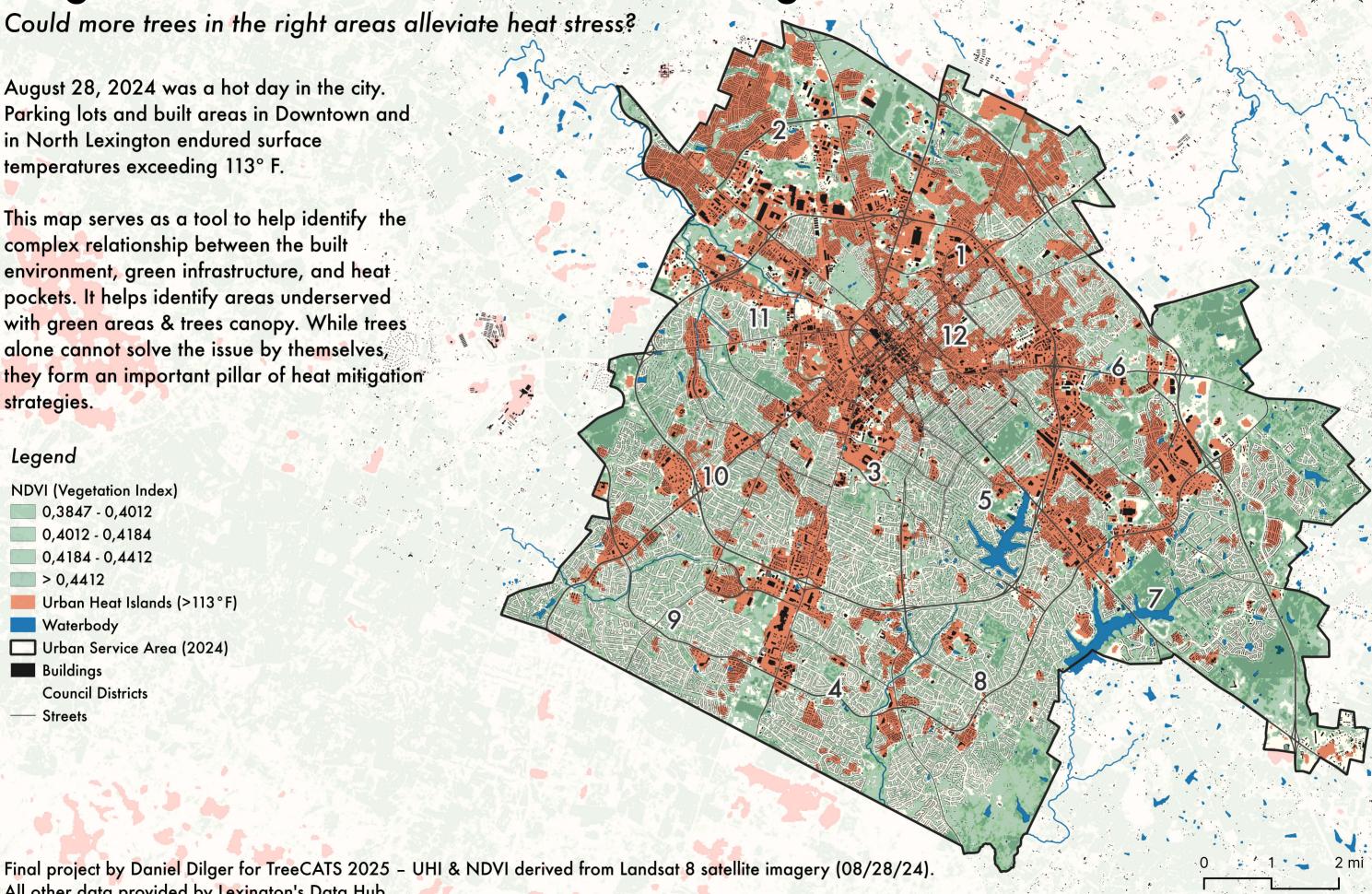
Legend

NDVI (Vegetation Index) 0,3847 - 0,4012 0,4012 - 0,4184 0,4184 - 0,4412 > 0,4412 Urban Heat Islands (>113°F) Waterbody Urban Service Area (2024)

Council Districts

Streets

Buildings



Final project by Daniel Dilger for TreeCATS 2025 - UHI & NDVI derived from Landsat 8 satellite imagery (08/28/24). All other data provided by Lexington's Data Hub.