

## **West Cocoa Digitalization in Support of Resilient Green Infrastructure Conservation in Brevard County, Florida, USA**

This essay examines the use of georeferenced aerial images from 1943 to 1970 in Brevard County, Florida, with a specific focus on the communities within the area known as West Cocoa. This study investigates the historical landscape and urban development practices, highlighting the significance of green infrastructure and climate resilience planning. The research also provides regional background and discusses the East Central Florida Regional Resiliency Action Plan (RRAP) and its objective to prioritize green infrastructure as a first line of defense and promote interconnectivity of natural lands for habitat migration. This essay emphasizes the importance of considering diversity, equity, and inclusivity in climate change resiliency strategies, particularly in historically disadvantaged communities. Furthermore, it addresses the importance of brownfield identification and remediation, examining the potential presence of a brownfield site in West Cocoa, and the need for further research to assess contamination levels. The findings underscore the importance of sustainable land use practices, preservation of green spaces, and informed decision-making for promoting future sustainable development in Brevard County. Overall, this essay contributes to the understanding of historical land use patterns in the region, the impact of climate change on natural areas, and the importance of integrating green infrastructure into planning efforts.

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