Introduction

This partnership is researching the real-world challenges of advancing community-based gardening programs and addressing the needs of community gardeners. We are working in partnership with the nonprofit Phoenix Revitalization Corporation (PRC) in Central City South (CCS) to improve nutrition and reduce summer temperatures through adding productive green spaces. The PRC organizes many activities in these eight neighborhoods including police and neighborhood residents to increase line of sight. Because our windshield surveys found few rooftop-mounted trees have been removed of a lack of green spaces and shade, the summer heat is higher than neighborhoods that have shade and green space.

Food desertification has been observed nationwide in economically disadvantaged neighborhoods from a loss of supermarkets and the spread of calorie dense fast foods. Food desertification has been anecdotally observed in the 8 CCS neighborhoods through both windshield surveys and personal communication with neighborhood activists. There is only one very small food-market that serves the 8 CCS neighborhoods, but there is a plethora of fast food and snack shops. Trees have been removed at the request of both police and neighborhood residents to increase line of site. Because of a lack of green spaces and shade, the summer heat in such neighborhoods can climb 15 degrees higher than neighborhoods that have shade and green space.

Our windshield surveys found few rooftop-mounted air conditioners; many homes are cooled by evaporative coolers.

Community Context

Census tract data shows that a significant portion of PRC CCS neighborhood residents live below the poverty line. This is a predominantly Hispanic/African American/Asian community.

Food desertification has been observed in the United States, where neighborhoods lack access to healthy foods. This lack of green spaces and shade can exacerbate the heat experienced in these communities.

Gardens like the one above in the Grant Park Neighborhood have been abandoned for lack of interest. Alley gardens have been used by the CCS neighborhoods to reduce crime and urban blight.

Alley gardens have been used by the CCS neighborhoods to reduce crime and urban blight.

Theory & Project Context

Our research joins community food security with environmental justice. The academic literature illustrates that community gardens in economically disadvantaged neighborhoods serve as points of organization and empowerment which leads to other issues being addressed. Partnering with the PRC allows us the unique opportunity to gain insight into an existing community gardening program and the University. At the request of the PRC we are creating educational content and materials that facilitates the community gardening program. Our surveys, focus groups and interviews will create valuable strategies for empowering the CCS community gardens and increase the academic knowledge of community gardens.

Survey General CCS Population
Focus Groups PRC Community Gardening Clubs
Personal Interviews PRC Community Gardening Organizers

To help the PRC and CCS neighborhoods turn this:

Into successful CCS community gardens like this one

Methods

A multi-staged and multi-method approach is used. The data gathered by the survey will be refined by focus groups. Personal interviews will give us insight into the structural organization.

Theory

Paper about Environmental Justice & community gardening in CCS is synthesized

Data Compiled

Focus Groups

PRC Community Gardening Clubs

ASU Faculty & Students

Personal Interviews

PRC Community Gardening Organizers

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Research Questions

- What issues of land tenure and water resources exist for CCS community gardeners?
- Which particular community garden designs are most likely to attract potential gardeners?
- What benefits or detriments do CCS residents associate with community gardening?
- What social differences exist between community gardeners and those who do not do community gardening?
- Could community gardens in the CCS neighborhoods proved viable greening and shading alternatives to trees and parks?

References


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