Birth to Five Food Insecurity in the Triangle

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Project Objectives

1. Investigate the root causes and effects of food insecurity for young learners

2. Investigate where food insecurity is concentrated in the Triangle area
Research Methodology

- Literature Review
- Interviews with Local Leaders
- Creation of GIS Maps
We synthesized research concerning food insecurity in these specific subject areas:

- The history of food insecurity as a Social Determinant of Health
- How food insecurity affects children
- How the effects of parental food insecurity are passed onto children
Root Causes of Food Insecurity

- Low minimum wage
- Systemic racism
- Lack of Affordable Housing
- Citizenship status
- Transportation
- Ease of access to unhealthy foods
- Poor physical and mental health of parents
- Living in a food desert
Effects of Food Insecurity

Cognitive Effects
- Cognitive inflexibility
- Focus
- Fatigue

Behavioral Effects
- Difficulty developing interpersonal skills
- Difficulty following instructions
- Irritability

Impacts on Educational Outcomes
- School climate and discipline
- Academic achievement
- The development of problem-solving skills
Main Objective:
Use secondary data sources to map birth to five food insecurity in the Triangle.
Indicator 1: Persistent Poverty Status
Indicator 2:
BEA Distressed Community Status
Creation of GIS Maps

Indicator 3: Low Access Status
Indicator 4:
High Food Expenditure Status
Creation of GIS Maps

Indicator 5: High Child Status
Food Insecurity in The Triangle

Map with all 5 indicators combined

Census tract with 0 indicators

Census tract with all 5 indicators
Food Insecurity in The Triangle

[Map showing areas with different levels of food insecurity and child care centers participating in CCSA’s Meal Services Program]
Recommendations for CCSA
Expansion of the Meal Services Program

Target Areas of greatest need

a. Reach out directly to child care centers located in areas with high food insecurity
b. Assist new child care centers in becoming partners with CCSA’s Meal Services Program
Durham Kitchen

Parent-kid cooking classes

Startup Kitchen Space

Kids cooking competition

Field Trips & Summer Camps
Questions?