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#### Food Deserts

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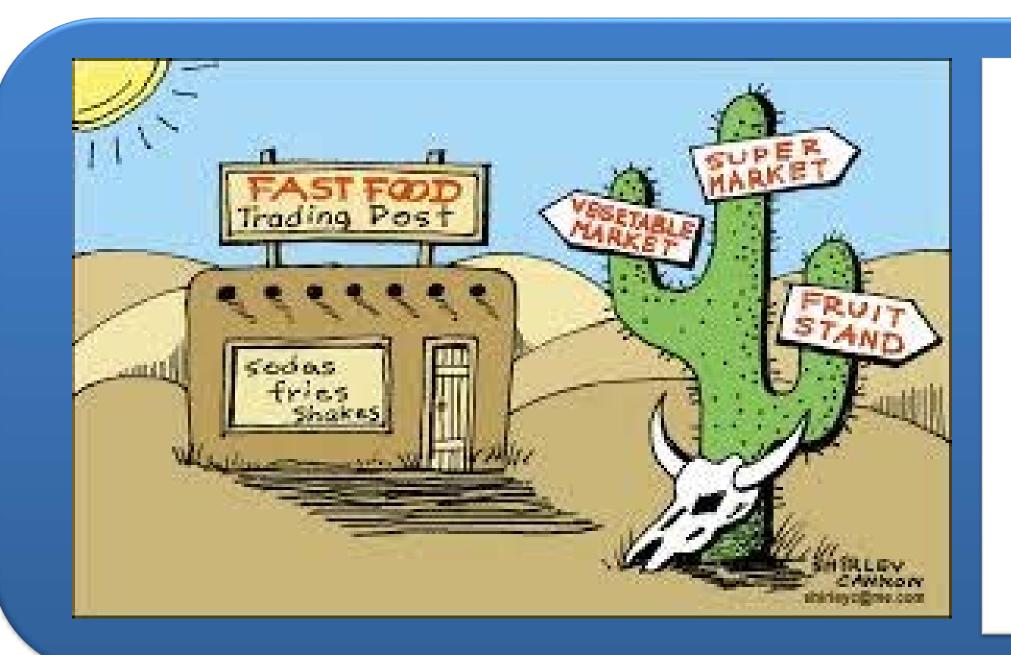
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### What is a Food Desert?

A food desert is a geographical area in which there is not easy access to fresh, healthy, and affordable food.

## **Qualifications of a Food Desert**

- 1. Low-income communities: a poverty rate of 20% or a median family income at or below 80% of the area median family income (Agricultural).
- 2. Low-access communities: At least 500 persons and/or at least 33% of the census tract's population live more than one mile from a supermarket or large grocery store (Agricultural).

#### **Overview of the Impact of Food Deserts** The following information came from an article titled Food Deserts (2015): Health

- Food deserts lead to poor diet and higher levels of obesity and other diet-related diseases (ex. Diabetes and heart disease).
- Food at convenient stores are loaded with processed, sugar, and fat laden foods.
- Financial
- In the short-term unhealthy eating may be economically cheaper but is one of the main reasons minority and low-income populations suffer from health conditions because of diet.
- From 1989 to 2005 the price of fruits and vegetables increased by almost 75% while the price of fatty foods dropped by over 25%.
- **Spiritual**
- 1 Corinthians 10:31
- -We should do all things in a way that is pleasing to God, especially eating.
- 1 Corinthians 6:19

-Knowing that the Holy Spirit resides within us, we should strive to make a healthy place for Him by glorifying Him with our bodies.

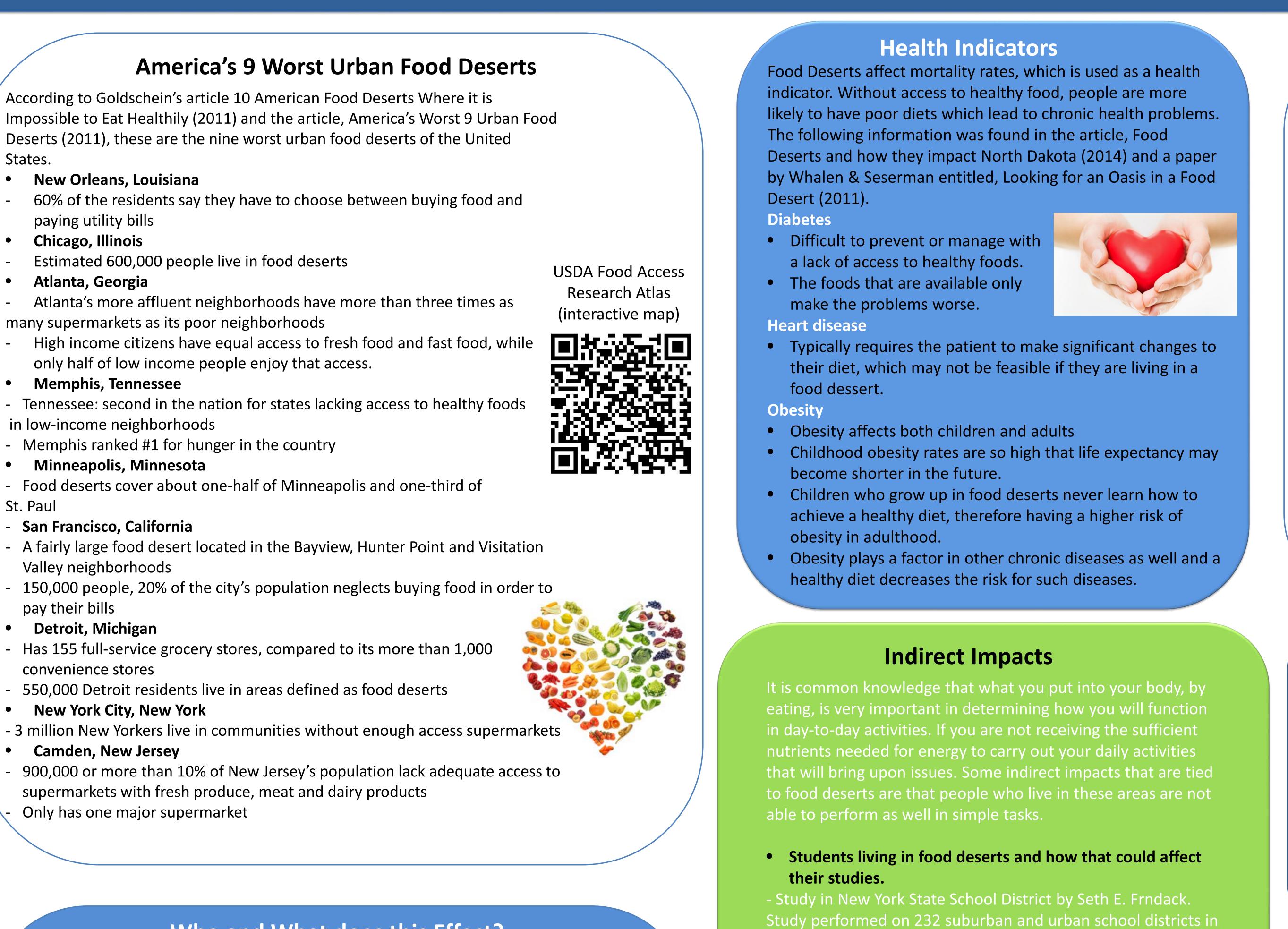
States. St. Paul

> Who and What does this Effect? While it seems like food (especially healthy food) is readily available, we are in a small area where food has been made available for us. It is interesting to know that even cities near Cedarville, Ohio have food deserts.

# **Food Deserts**

Mary Sprow, Martha Morton, Emily Fisher, and Bethany Anderson

# **Cedarville University School of Pharmacy**



According to an article titled, *Identifying and Measuring Food* Deserts in Rural Ohio,

- 23.5 million people live in food deserts, half of these people are low income
- 2.3 million households in U.S. live 1+ mile away from a supermarket and have no transportation
- 3.4 million U.S. households live between 0.5 to 1 mile and have no means of transportation
- 4.4% of U.S. households in rural areas live more than 1 mile
  - from the supermarket, with no access to transportation.
- 22% of U.S. households in low-income urban areas live 0.5 to 1 mile from a supermarket with no access to transportation

As supported above, the individuals that are most impacted by this issue are in low income urban areas or secluded rural areas.

New York state (Frndack).

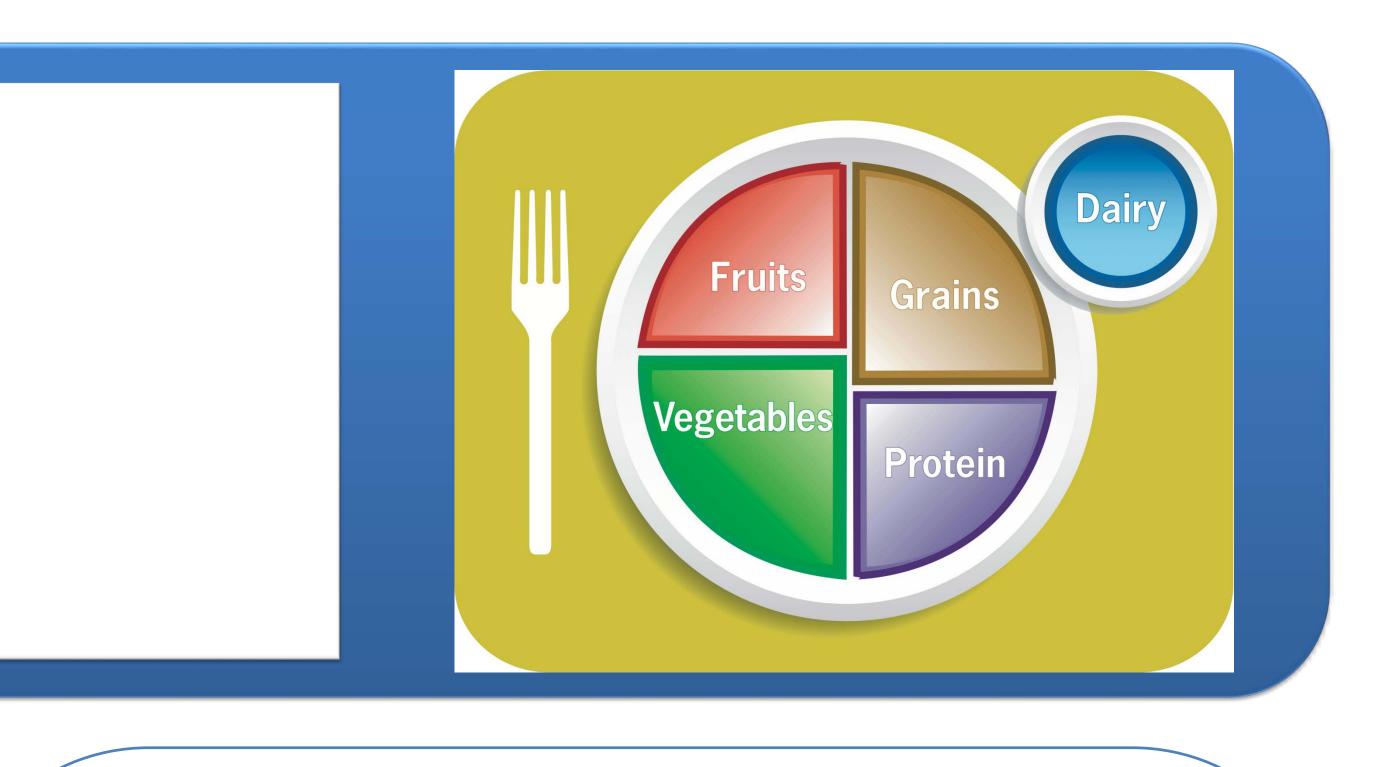
• Athletes living in food deserts and how that could affect their performance.

### **Determinants of Health**

#### **Social Factors...**

- Transportation • Access to a private vehicle plays a large role in determining the ease of obtaining sufficient, healthy, and affordable food (Dutko)
- Comparisons between food desert tracts and other areas suggest that the disadvantaged status of food deserts is also reflected in lower vehicle access rates (Dutko).
- 25 percent more of all occupied housing units report having no access to a vehicle in rural food deserts than in most rural tracts (Dutko).
- For urban food deserts, the percentage of households without access to vehicles is anywhere from 24 to 38 percent higher than in other urban areas (Dutko).
- USDA's Economic Research Service study

- Individual Behavior Choices...
- <u>Diet</u>
- People in food deserts do not have the resources to eat healthy. • If someone escapes from a food desert environment, they will more
- than likely not have the skills to prepare healthy, balanced meals.
- They will also not have the knowledge to make healthy food choices.



### Call to Action

The following information came from Food Deserts:: A Visual Study

#### Community

•Grow food locally through community gardens

•Develop alternative retail outlets like farmers markets

#### Access

 Increase stock and variety of healthy food in local grocery stories

•Build more grocery stores where there any not any

 Improve transportation to grocery stores and farmers markets

#### Empowerment

 Provide cooking classes to teach people how to make healthy and inexpensive meals.

Teach classes on nutrition

•Participate in Target Dayton



Target Dayton: A way to be involved locally.



#### **Pharmacy and Food Deserts**

- Due to the fact that individuals living in a food desert environment do not receive the nutrients and vitamins that they need from their diet, they may turn to supplements and medications to account for these missed components.
- Individuals may require more medicinal help due to the chronic
- conditions. that stem from an unhealthy diet. These include, but are not limited to, diabetes, cardiovascular diseases and obesity.
- In areas classified as food deserts, there is a high probability that it could also be part of a pharmacy desert, because pharmacies typically reside in or around grocery stores.

#### **Reference List**

America's Worst 9 Urban Food Deserts. (2011, September 22). Retrieved November 3, 2015, from http://newsone.com/1540235/americas-worst-9-urban-food-deserts/

Agricultural Marketing Service - Creating Access to Healthy, Affordable Food. (n.d.). Retrieved October 28, 2015, from https://apps.ams.usda.gov/fooddeserts/fooddeserts.aspx

Dutko, P., Ver Ploeg, M., & Farrigan, T. (2012, August 1). Characteristics and Influential Factors of Food Deserts. Retrieved November 3, 2015, from

http://www.ers.usda.gov/media/883903/err140.pdf

• Eliminating Food Deserts and Improving Food Access. (n.d.). Retrieved November 3, 2015, from http://www.dccentralkitchen.org/eliminatingfooddeserts/

• Food Deserts. (2015). Retrieved October 28, 2015, from http://www.foodispower.org/food-deserts/ Food Deserts and how they impact North Dakota. (2014, March 1). Retrieved November 3, 2015, from, http://www.ndcompass.org/trends/ask-a-researcher/karen-ehrens--food-deserts-march14.php#.Vjk-APmrTIW

• Food Desert Solutions. (n.d.). Retrieved November 3, 2015, from

https://brownisthenewpink.files.wordpress.com/2014/05/fooddeserts\_solutions\_final.jpg • Frndak, S. (2014, December 9). An Ecological Study of Food Desert Prevalence and 4th Grade Academic

Achievement in New York State School Districts. Retrieved November 3, 2015, from http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4274497/

• Goldschein, E. (2011, October 12). 10 American Food Deserts Where It Is Impossible To Eat Healthily. Retrieved November 3, 2015, from http://www.businessinsider.com/food-deserts-urban-2011-10?op=1

• Identifying and Measuring Food Deserts in Rural Ohio. (n.d.). Retrieved November 3, 2015, from http://www.joe.org/joe/2012june/a6.php

• Social Determinants. (2014). Retrieved November 3, 2015, from

https://www.healthypeople.gov/2020/leading-health-indicators/2020-lhi-topics/Social-Determinants • Whalen, MD, E., & Seserman, MPH, RD, M. (2011, October 1). Looking for an Oasis in a Food Desert. Retrieved November 3, 2015, from

https://www.cancer.org/acs/groups/content/@eastern/documents/webcontent/acspc-031472.pdf