Community Technical Assistance, Inc.



7 Glenwood Avenue, Suite 407

East Orange, NJ, 07017

Phone: 973-395-0775

Fax: 973-395-1134

Executive Director: Roland Whitley, Jr.

Community Technical Assistance, Inc.

Mission

Community Technical Assistance, Inc. (CTA) mission as a New Jersey based 501(c)(3) non-profit organization is to provide technical assistance in low-to-moderate income neighborhoods in order for youth, residents, community-based and faith-based organizations to transform their distressed community.

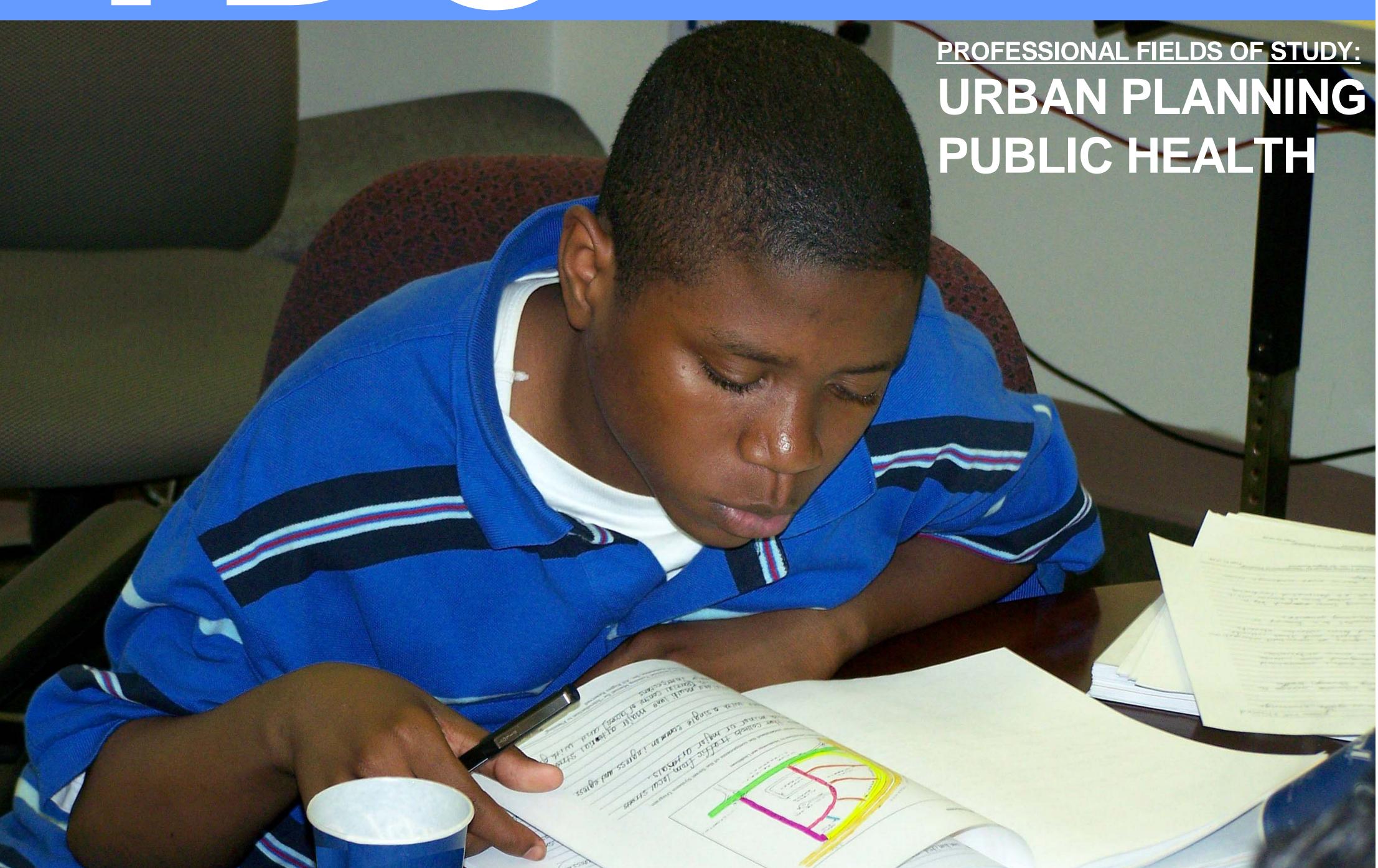
Objective:

Our objective is to empower young citizens to create their own environments, improve their quality of life, and become leaders in their community.

To achieve our objective, CTA has established four (4) technical assistance sections.

- Community and Economic Development
- Public Health
- Housing and Neighborhood Stabilization
- Technical Assistance

Transforming Distressed Communities Program



www.cta-us.com

TDC is an applied learning-based program that links the academic education of youth with hands-on real world community development projects.

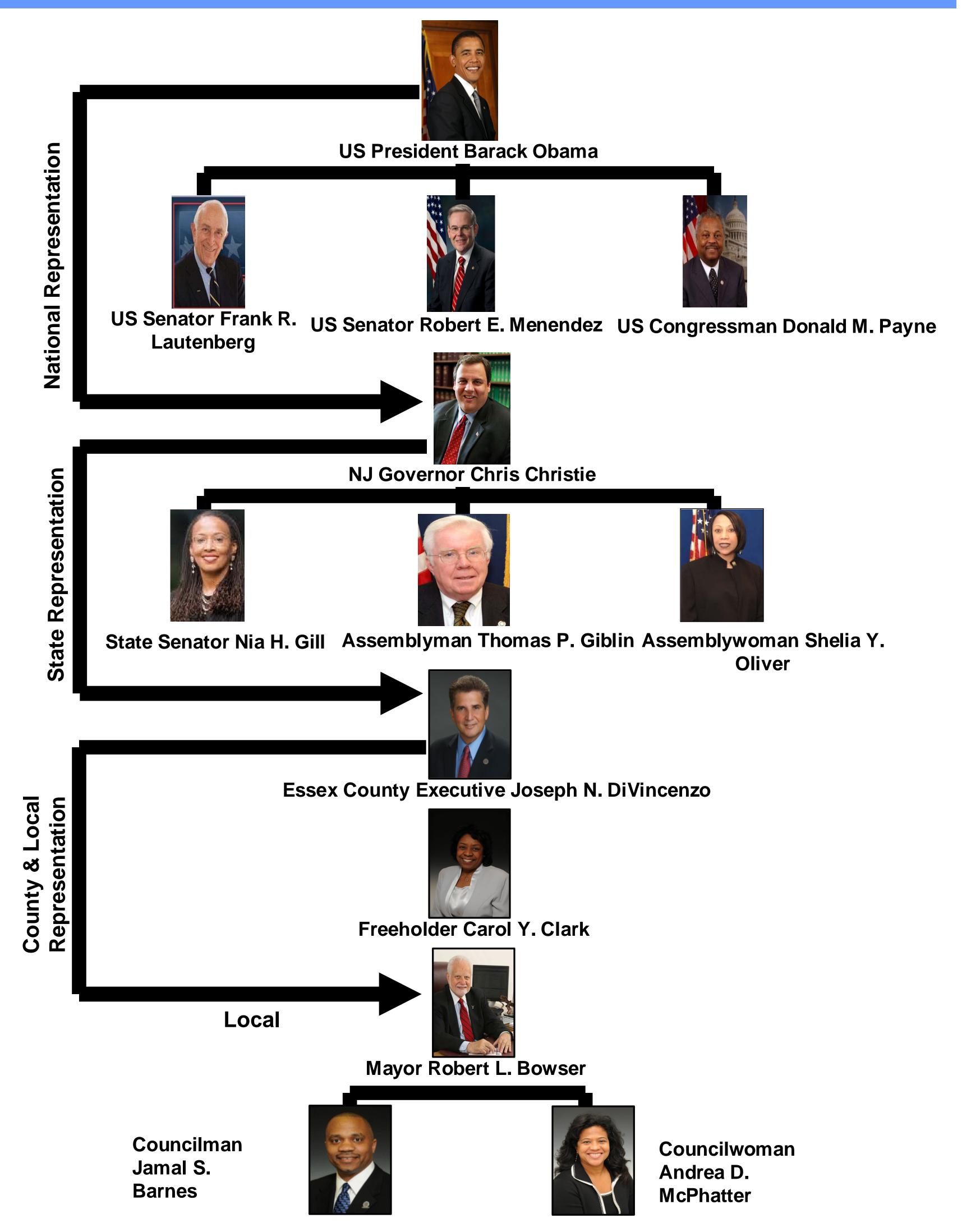
Community Technical Assistance, Inc.

7 Glenwood Avenue, Suite 407, East Orange, NJ 07017...Office (973) 395-0775...Fax (973) 395-1134...email: admin@cta-us.com

Geographical & Political Boundaries

Goal 1: Identify the Political Representatives & Possible Relationships to the Project Site

Objective: Present each political representative's district boundary, offices, committees, and possible relationships to your Project Site.



U.S. President Barack Obama (D)



Office: U.S. President
Total for State: 1
Total for Project Site: 1

District Boundary: United States of America

Possible Relationship to project Site

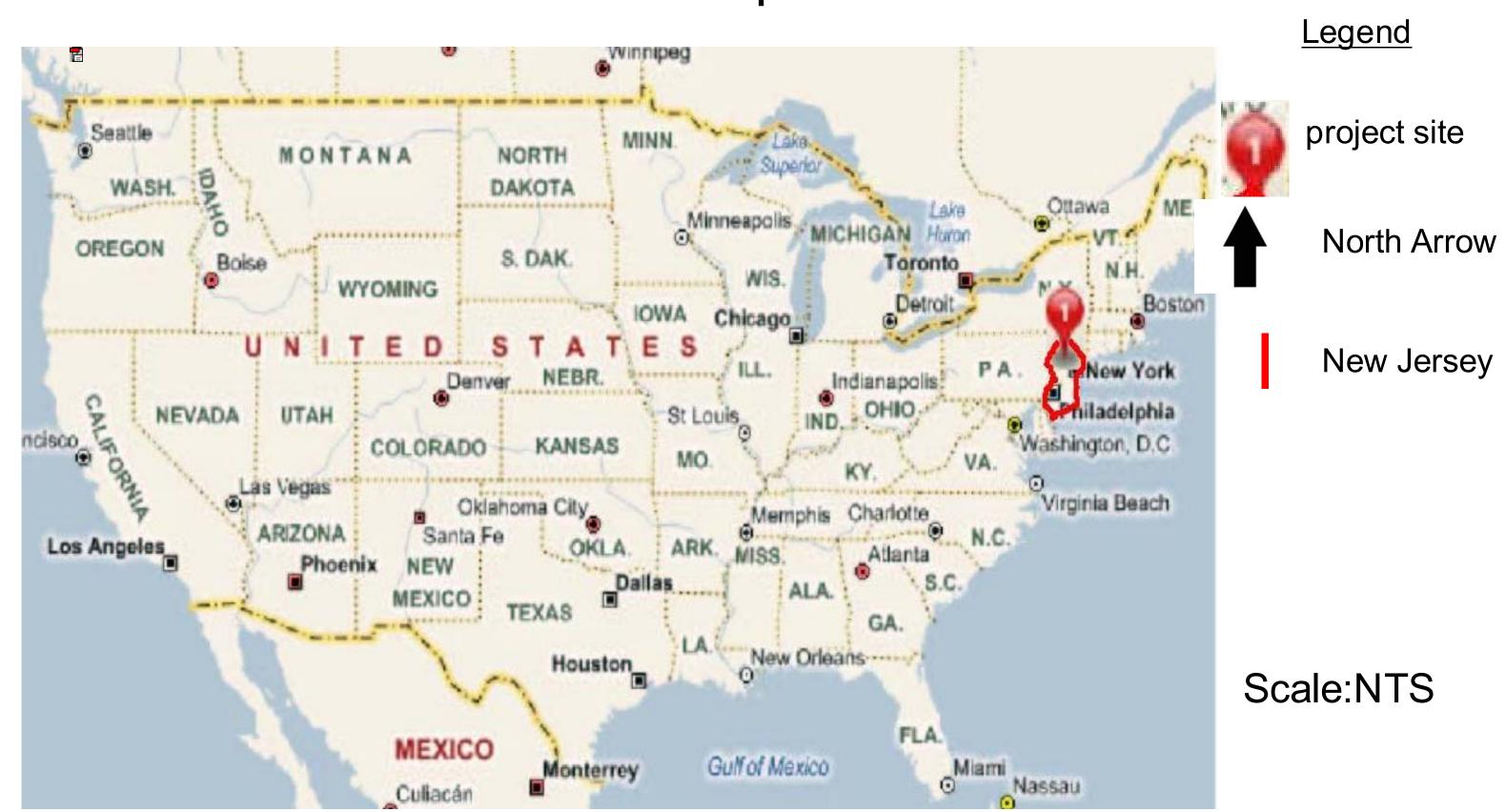
- Democratic presidential candidate Barack Obama unveiled his agriculture plan yesterday on the campaign trail in lowa. The plan includes all kinds of proposals that the Obama camp hopes will excite rural Americans -- particularly those who reside in early-primary states.
- •Obama's agriculture plans include increasing funding to help farmers transition to organic, reforming the USDA's crop-insurance program so it doesn't penalize organic farmers, requiring country-of-origin labeling on meat products, enforcing stricter pollution regulations for CAFOs (concentrated animal-feeding operations), increasing use of ethanol and other biofuels by requiring 60 billion gallons of biofuels in the nation's fuel supply by 2030, and limiting subsidies to huge agribusiness operations.
- •"Too many family farmers are being squeezed as big agribusiness take up larger shares of federal subsidies, takes up more market share, manipulates prices and contracts, makes it harder for family farmers to control how they run their own farms,"

Federal office



The White House 1600 Pennsylvania Avenue NW Washington, DC 20500

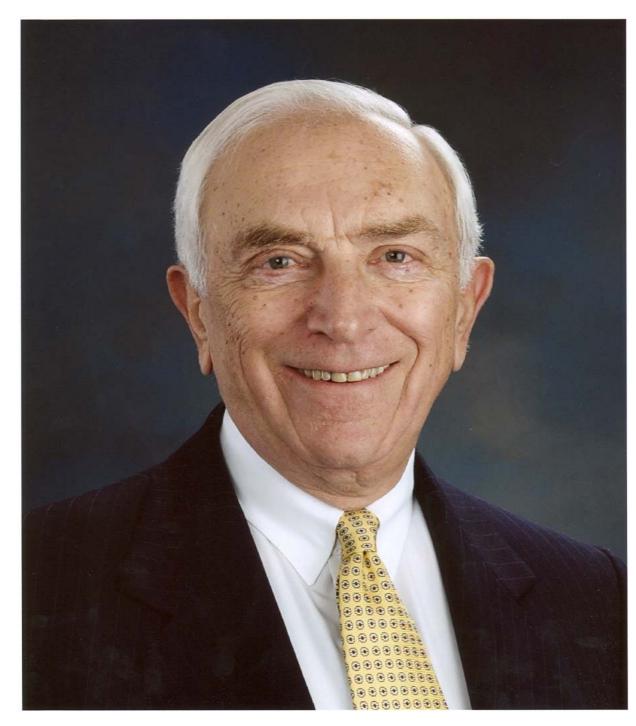
United States Map



Sources:

http://maps.ask.com/maps?qsrc=167&o=0& http://en.wikipedia.org/wiki/File:WhiteHouseSouthFacade.JPG http://www.cubaheadlines.com/files/cubaheadlines.com/imag enes/obama8.jpg

U.S. Senator Frank R. Lautenberg (D)



Office: U.S. Senator
Total For Nation: 100
Total For State: 2
Total For Project Site: 2
District Boundary: NJ

Possible Relationship To Project Site

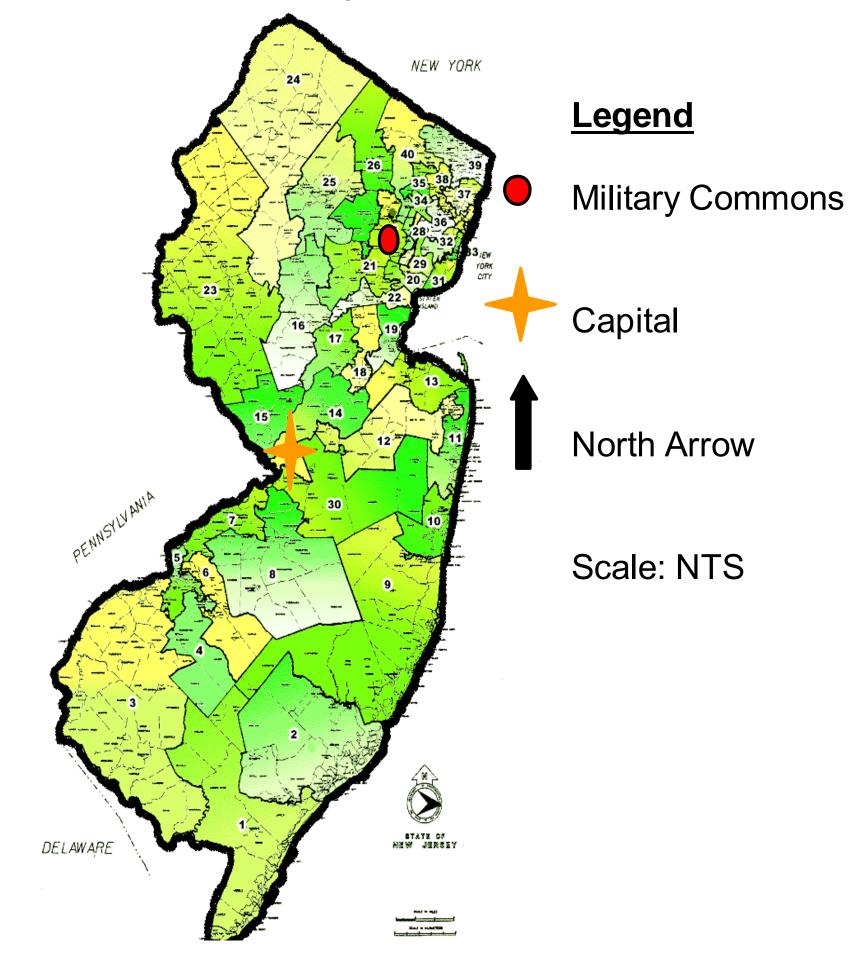
- American Recovery & Reinvestment Act
 (ARRA) Was signed into law by President Obama in February of 2009
- Announced 2 million for preventive health & Wellness Initiatives
- \$1,168,266 funds will prevent chronic disease, promote wellness, provide positive sustainable health opportunities in communities throughout America, promote physical activity and nutrition
- Relation: Federal funding from the American Recovery & Reinvestment Act (ARRA) to reduce obesity, increase physical activity & improve nutrition

Hart Senate Building



324 HART SENATE OFFICE BUILDING WASHINGTON DC 20510

New Jersey State Map



http://www.senate.gov/genhttp://factfindeus.g ov http://factfinder.census.gov/

http://www.google.com/images

U.S. Senator Robert Menendez (D)



Office: U.S. Senator
Total For Nation: 100
Total For State: 2
Total For Project Site: 2
District Boundary: New Jersey

Possible Relationships to Project Site:

- Announced an estimated \$1.9 million in funding for key agriculture projects in New Jersey
- Helped secure a total of \$1,286,000 in funding for the following projects in New Jersey: FY2010 Agriculture, Rural Development, and Related Agencies Appropriations Act
- Granted a total of \$656,610 million for the FY2009 Specialty Crop Block Grant Program
- Relation: These investments are meant to promote farming and conservation efforts in New Jersey. The investments also help keep our farms economically viable and help keep our families healthy with fresh food grown locally. Appropriations allocate (assign) federal funds to the numerous government agencies, departments, and organizations on an annual basis.

Hart Senate Building

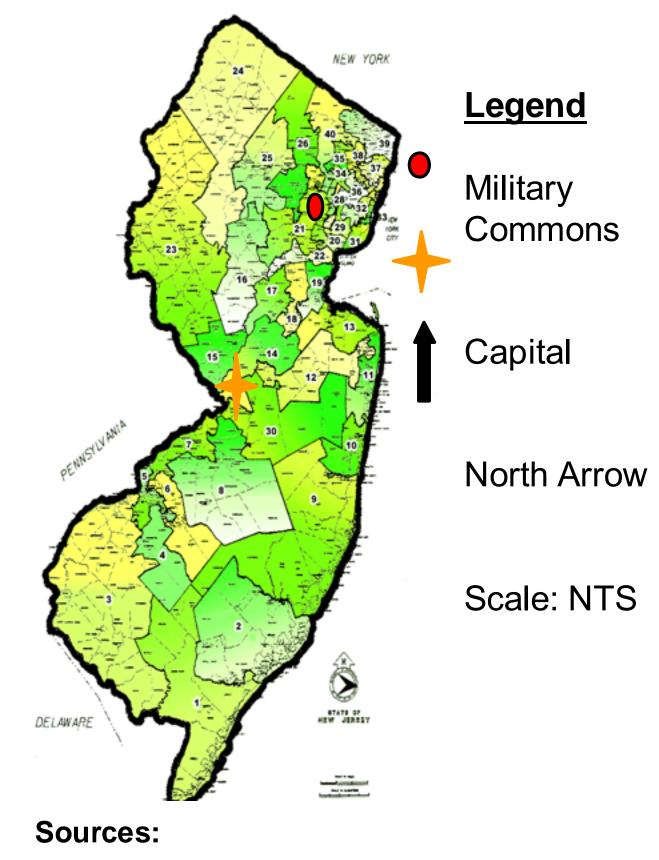


528 HART SENATE OFFICE BUILDING WASHINGTON DC 20510

New Jersey State Map



Senator Menendez and CTA Student Intern (Joseph Little John)



•http://factfinder.census.gov/servlet/MapItDrawServlet

- •http://www.senate.gov/general/contact_information
- •http://www.google.com/images

U.S. Congressman Donald M. Payne (D)



Office: U.S. Congressman

Total for State: 13

Total for Nation: 435

Total for Project site: 1

District Boundary: Congressional District 10

Possible Relationship to Project Site:
Building upon the momentum of its public health initiatives, the Congressional Black Caucus
Foundation (CBCF) will launch its Spirit of Healthy
Living (SOHL) program, a diabetes awareness
•Rep. Payne is taking the helm as CBCF is expanding its brand and stands on solid financial ground.

The Rayburn House



Independence Avenue and South Capitol Street Washington, DC 20003

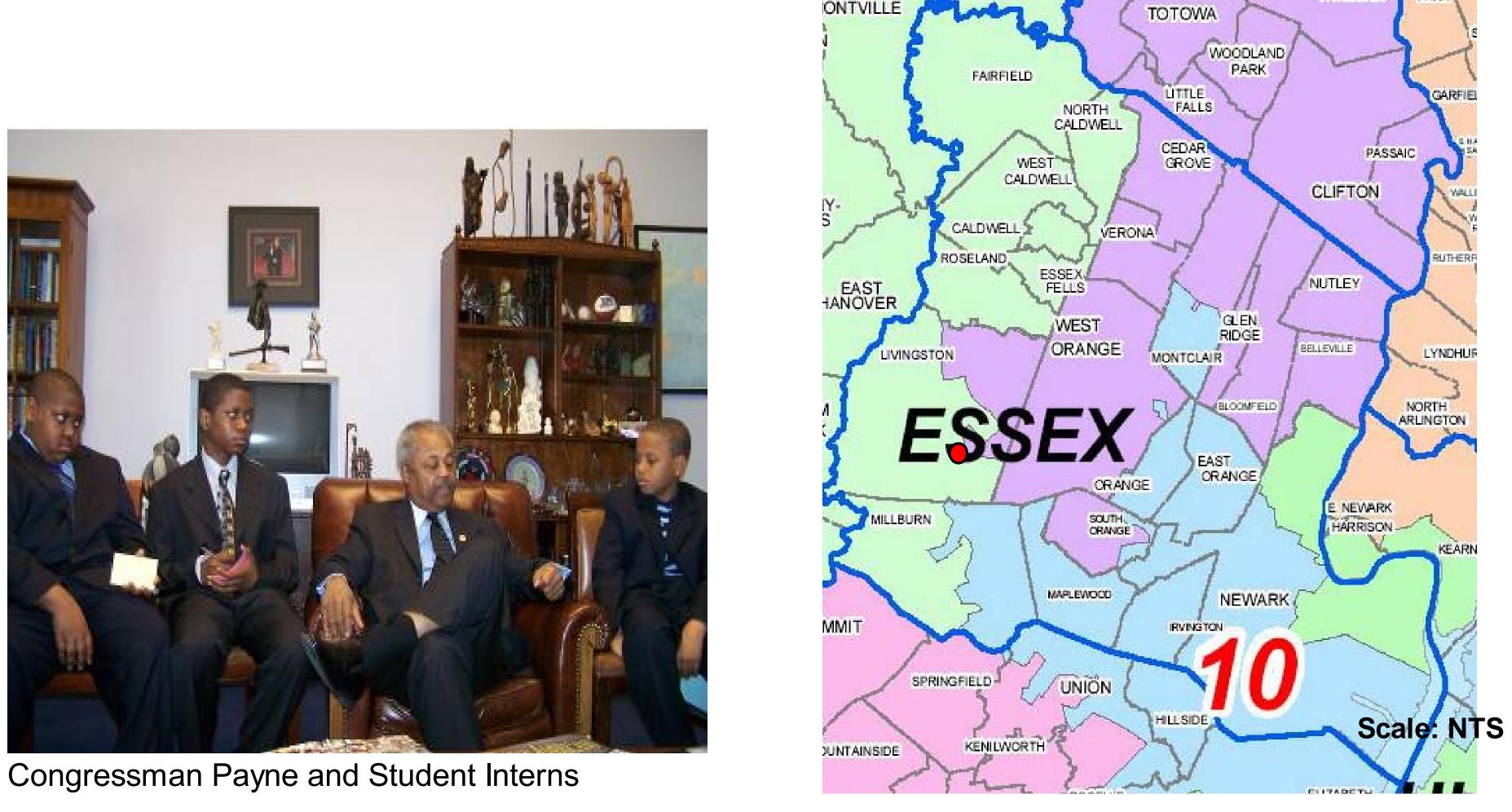
Legend

PROJECT SITE

ESSEX COUTY

NORTH AROOW

10th Congressional District Map



http://www.govtrack.us/congress/findyourreps.xpd?sta te=NJ&district=10 http://www.cbcfinc.org/2010-archive/448-cbcf-bringsspirit-of-healthy-living-to-newark.html

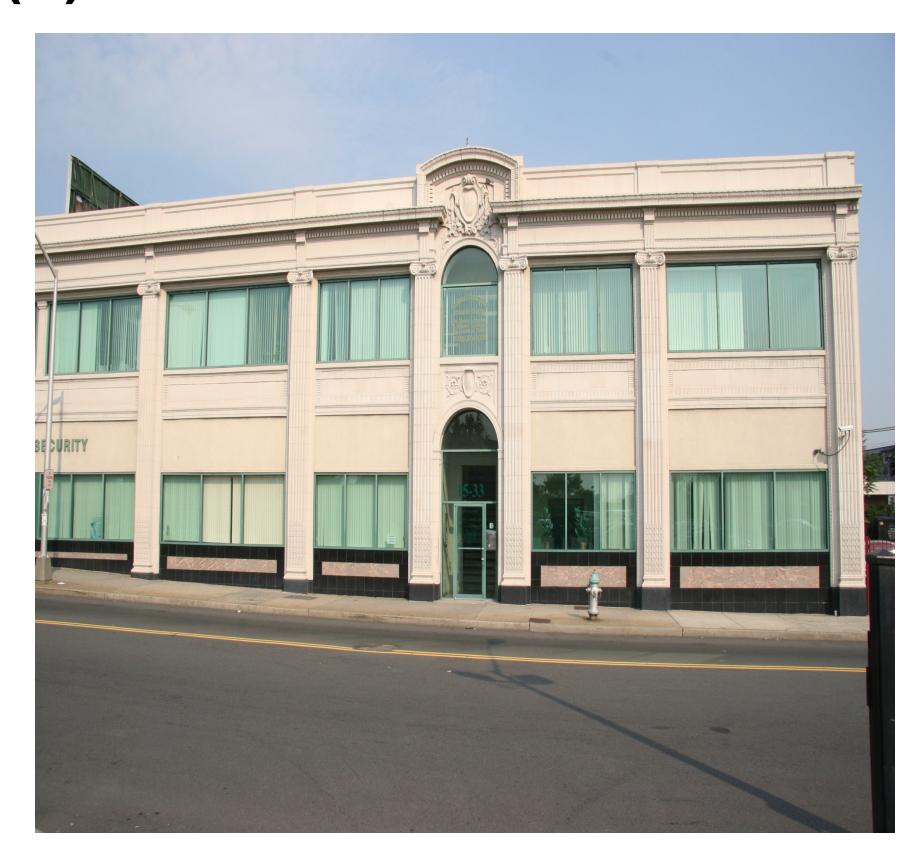
State Level

Assemblywoman Shelia Y. Oliver (D)

Federal Office



Office for state: 80
Total for project site: 2
District boundary: 34

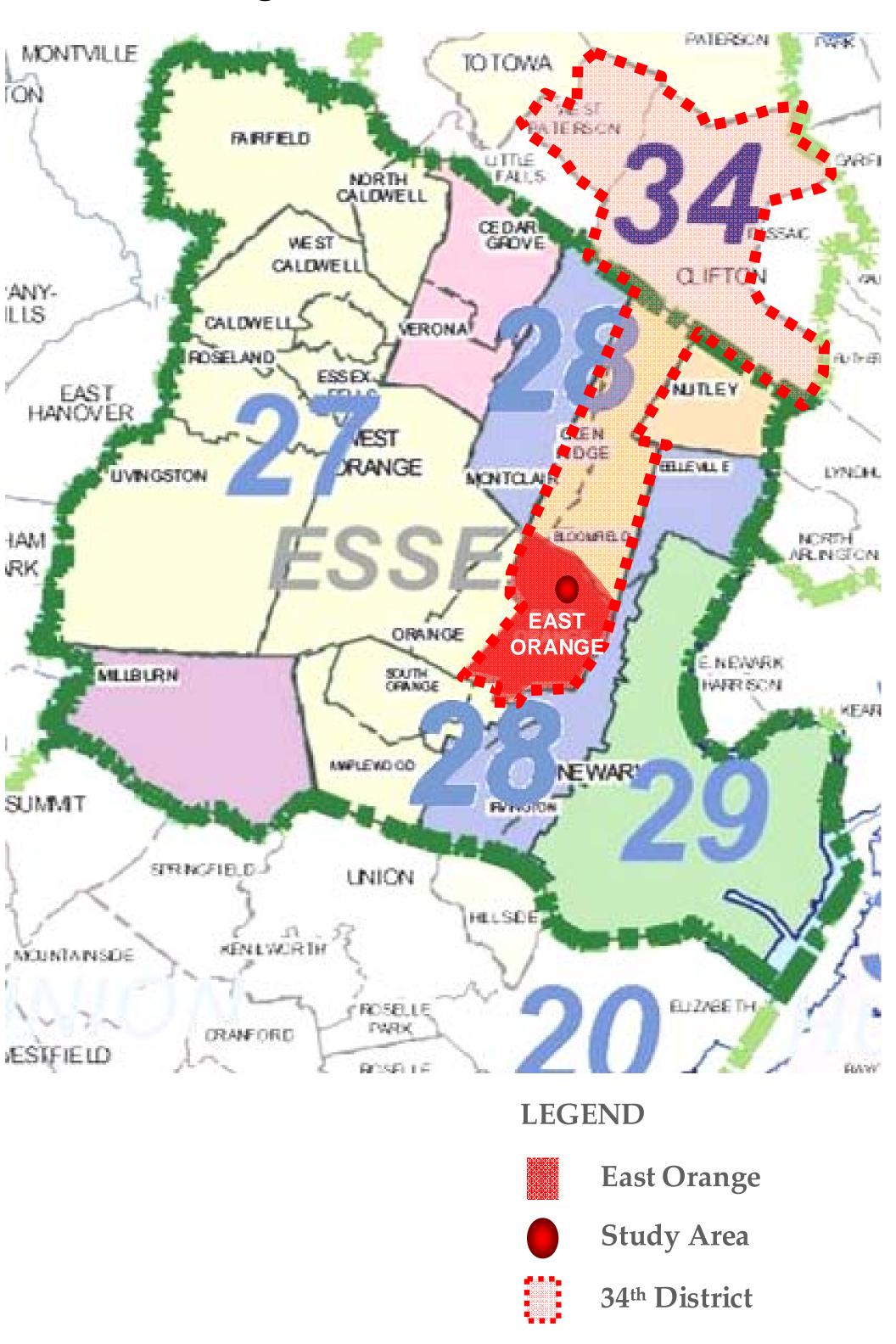


East Orange, NJ 07018 15-33 Halsted Street Suite 202

Possible Relationship to Project Site:

- •Assembly Speaker
- •Dedicates \$20million annually in realty transfer fee revenues to pay for development, improvement, and repair of state parks, forest, recreation area, historic sites natural areas and fish and wildlife areas
- •Requires use of highest appraisal value as offer price Green Acres and farmland preservation programs
- •Encourages purchase of 'Jersey Fresh and other NJ agricultural products by State agencies, departments and facilities
- •Transfers administration of certain mutrition programs to Department of Agriculture

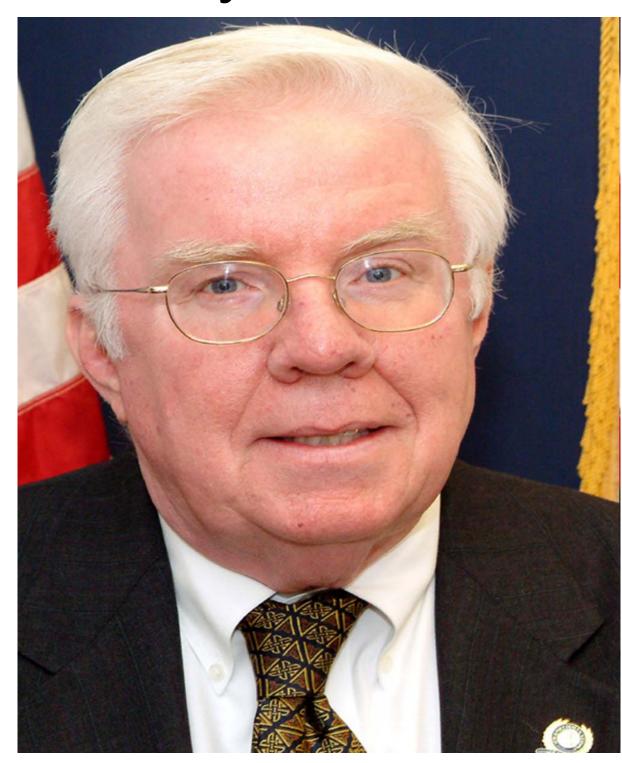
Legislative district 34



Sources: www.Census.gov www.Google.com www.Nj.gov

State Level

Assemblyman Thomas P. Giblin



Office for state: 80
Total for project site: 2
District boundary: 34

Federal Office



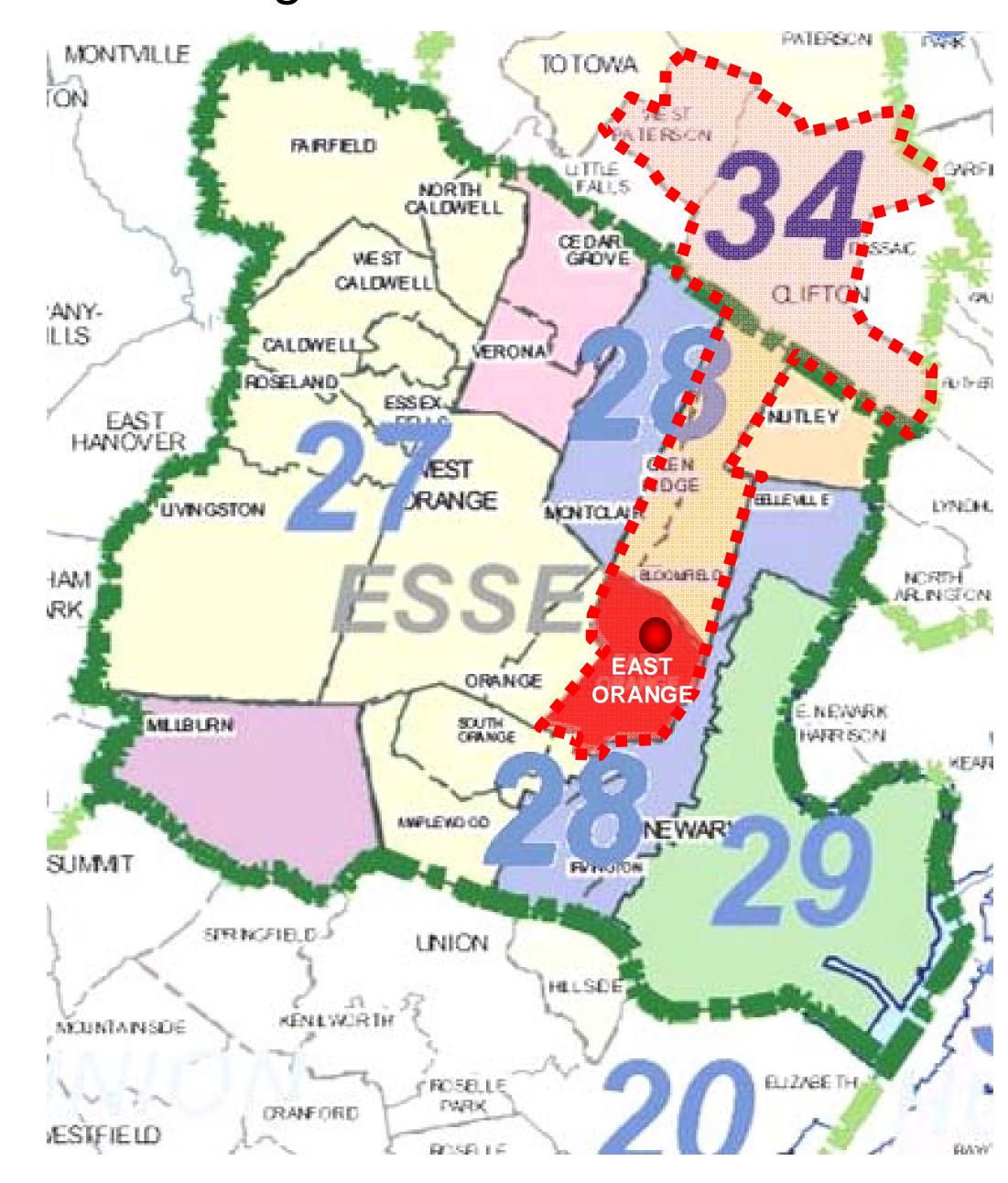
1333 Broad Street Office Clifton, NJ

Possible Relationship to Project Site

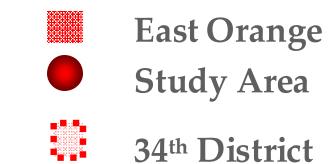
•A1098, "Green Job" Authorizes county colleges and county vocational school districts to establish green job certification programs. This bill states that counties have the right to develop and establish a green jobs certification program. The designated county vocational school district shall provide needed skills, develop training programs, and train workers for green jobs in one or more industries including, but not limited to, energy efficient building, construction and retrofits, renewable electric power, energy efficient vehicles, bibfuls, and manufacturing that produces sustainable products and uses sustainable processes and materials.

•Although Campus 9 is not a vocational school, other vocational schools can take advantage of this bill. Such as Bloomfield Tech Newark Tech, Newark Vocational, North 13th, West Caldwell Tech

Legislative District 34



LEGEND



Sources: www.Census.gov
www.Google.com
www.Nj.gov
www.Jerermiaha-site-freegames.webs.com

County Level

Freeholder Carol Y. Clark (D)



Office: Board of Chosen Freeholders

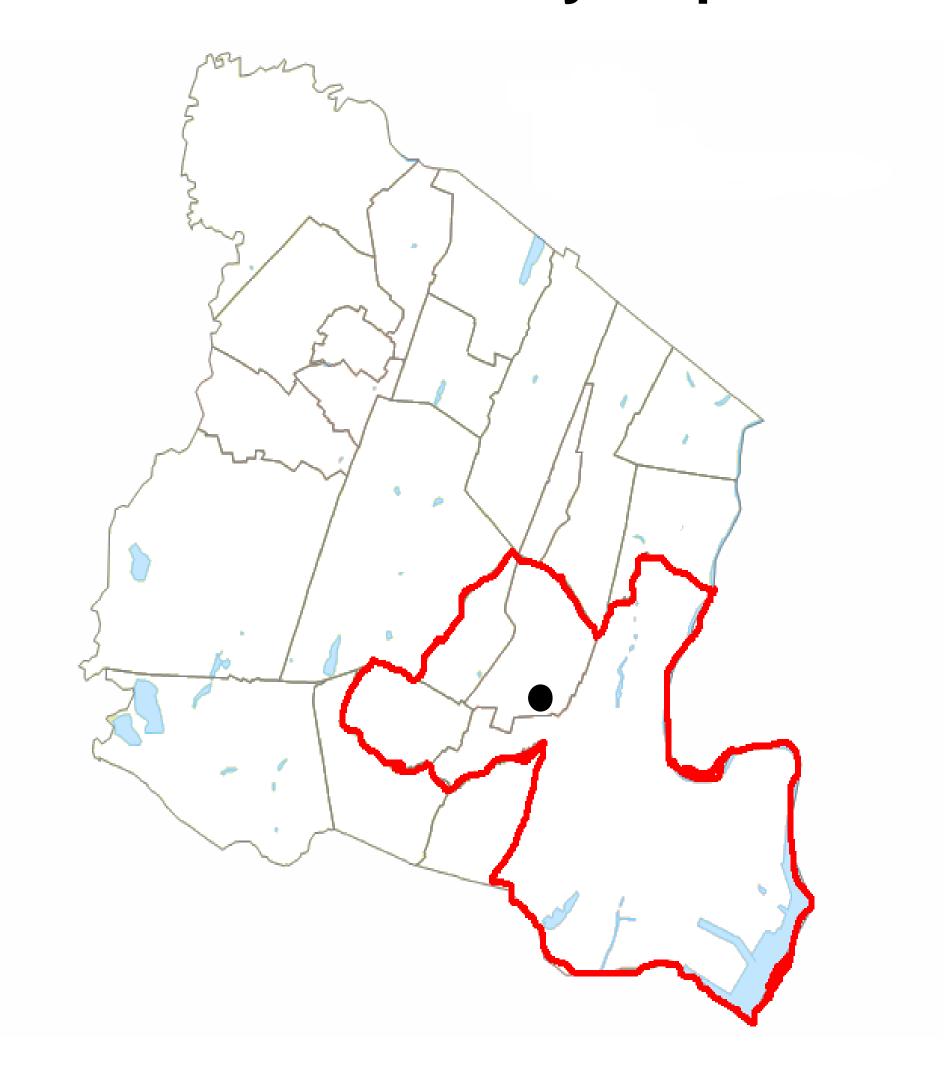
Total For State: 9
Total For Project Site: 1
District Boundary: District 3

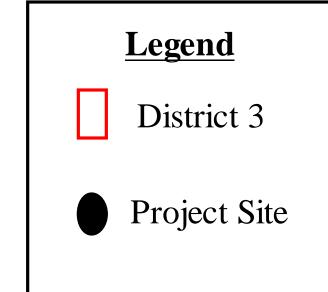
Freeholder Office



Hall of Records- Room 405 465 Dr Martin Luther King Jr. Blvd Newark, NJ 07102

Essex County Map





Possible Relationship to the Project Site:

- -Director of Community Affairs and Public Relations
- -Board Member Health Care/Health Benefits

Sources:

http://www.essexcountynj.org/freeholders/site/index.php?section=c http://www.resurgencecity.org/

Local Level

Mayor Robert L. Bowser (D)



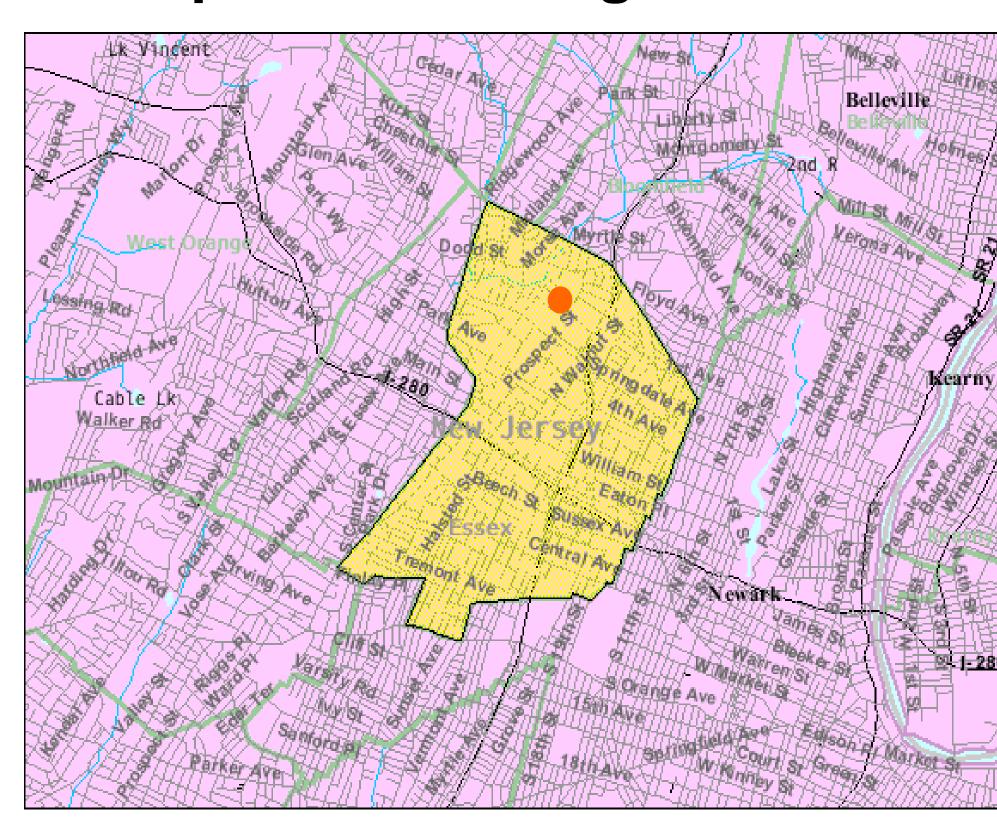
Office: Mayor of East Orange
Total for State: 37
Total for Project Site: 1
District Boundary: City of East Orange

City Of East Orange City Hall



44 City Hall Plaza, East Orange, NJ 07017-4191

Map of East Orange



Possible Relationship to the Project Site:
Supported the TDC Program for the last 5 Years
Robert L. Bowser is the president of NCBM (National Conference of Black Mayors) which provides culturally appropriate educational materials about exercise, fitness, obesity.

Sources:

http://www.njslom.org/magart_0108_p4.html
http://en.wikipedia.org/wiki/File:East_Orange_City_Hall_Lincoln_jeh.jpg
http://upload.wikimedia.org/wikipedia/en/c/c8/Census_Bureau_map_o
f_East_Orange,_New_Jersey.gif

Legend

City of East Orange

Project Site

Public Health





To reduce poor nutrition and chronic diseases caused by overweight and obesity by increasing the intake of fresh fruits and vegetables

Objectives:

- 1- To review the New Jersey Strategic plan and Healthy People 2010 to establish the need for the increase of the intake of fresh fruits and vegetables that lower chronic diseases
- 2- To collect data from YRBSS to assess overweight and obesity levels in the 9th grade community
- 3- To look at case studies that relate to the increase of nutrition and the reduction of overweight and obesity



Public Health Objective 1:

To review the New Jersey Strategic plan and Healthy People 2010 to establish the need for the increase of the intake of fresh fruits and vegetables that lower chronic diseases



Healthy People 2010 is a set of health objectives for the nation to achieve over the first decade of the new century

Significant Findings:

- •Too much consumption of saturated fat
- •Too little vegetables and fruits intake
- •To reduce chronic diseases associated with overweight and obesity

Connecting Goal:

Improve health, fitness, and quality of life through the intake of fresh vegetables.

Chapter 19. Nutrition and Overweight

Goal: Promote health and reduce chronic disease associated with diet and weight.

Objectives

Weight Status and Growth

19-3. Overweight or obesity in children and adolescents

- Reduce the proportion of children and adolescents who are overweight or obese.

Food and Nutrient Consumption

19-5. Fruit Intake

- Increase the proportion of persons aged two years and older who consume at least two daily serving of fruit.

19-6. Vegetable Intake

- Increase the proportion of persons aged two years and older who consumed at least 3 daily servings of vegetables, with at least one-third being dark green or orange vegetables.

Schools, Worksites, and Nutrition Counseling

19-15. Meals and Snacks at School

-(Developmental) Increase the proportion of children and adolescent age six to nineteen years whose intake of meals and snacks at school contributes to a good overall dietary quality.

Food Security

19-18. Food Security

-Increase food security among U.S households and in so doing reduce hunger.

Sources:

Weight Status and Growth

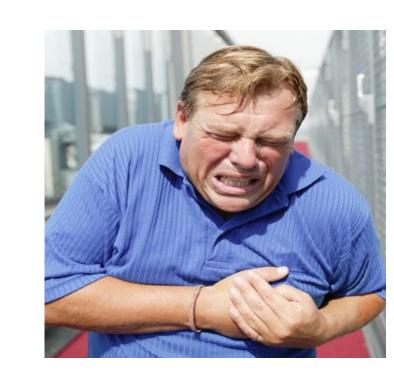
- 19-3. Overweight or obesity in children and adolescents
- Reduce the proportion of children and adolescents who are overweight or obese

Listed below are the chronic (lifelong) diseases associated with overweight and obesity









Asthma

High Blood

Diabetes

Heart Disease and Stroke

Food and Nutrient Consumption Pressure

19-6 Vegetable Intake

-Increase the proportion of persons age 2 yeas and older who consumed three daily serving of vegetables with at least 1-3 being dark green or orange vegetable

Vegetables associated with the reduction of Chronic Diseases



Reduces the risk

•Cancer

 Cardio Vascular Disease

•Asthma

Green beans



Reduces the risk

•Asthma

Corn

Reduces the risk of:

 Cardio vascular Disease

Diabetes

•Breast cancer

Butter Beans



Reduces the risk of:

Certain types of cancers

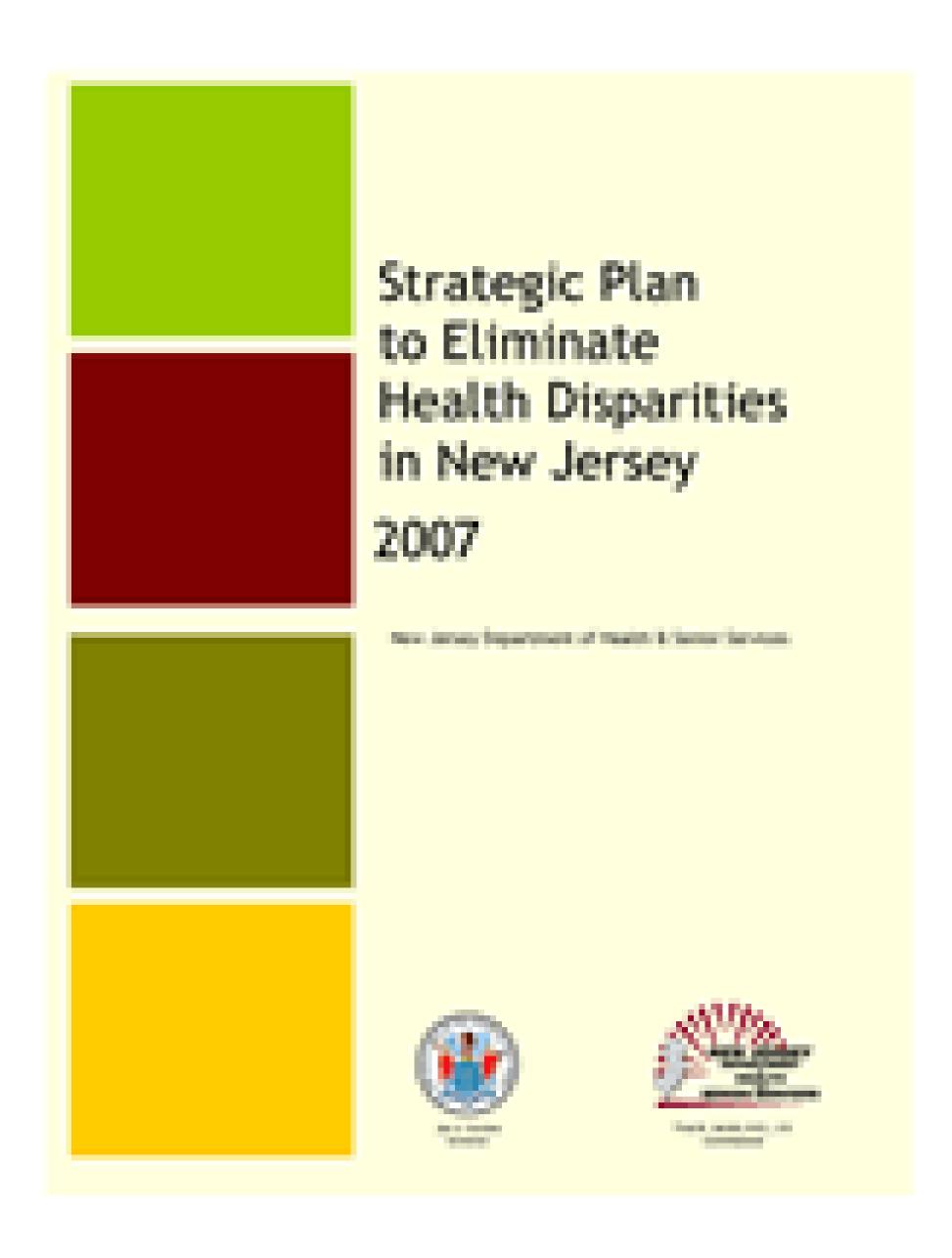
 Cardio Vascular Disease

•Type 2 Diabetes

The Strategic Plan to Eliminate Health Disparities in New Jersey 2007

Public Health Objective 1:

To review the New Jersey Strategic plan and Healthy People 2010 to establish the need for the increase of the intake of fresh fruits and vegetables that lower chronic diseases



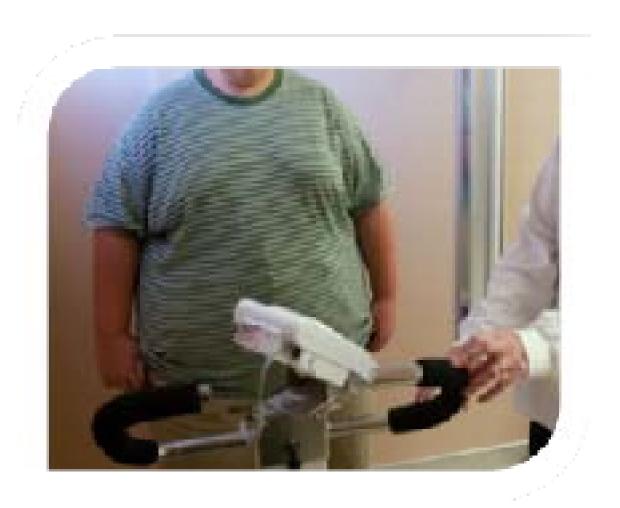
The Strategic Plan to Eliminate Health
Disparities is a roadmap guiding comprehensive
effort to reduce, and ultimately end health
disparities.

The plan was made by the New Jersey Department of Health and Senior Services.

Connecting Goal:

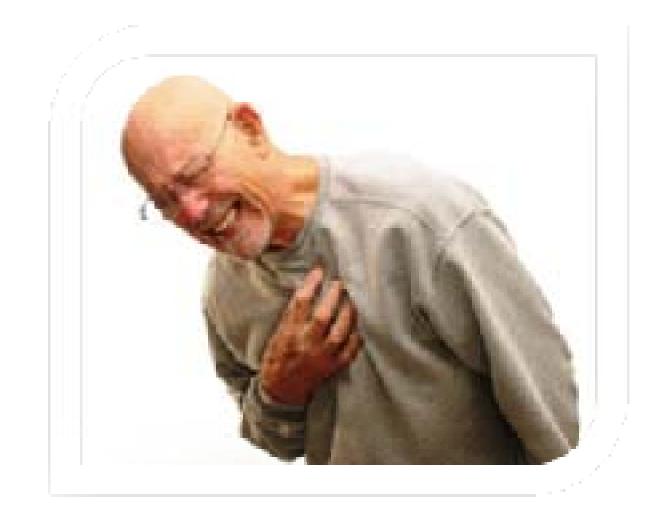
To decrease disparities in obesity and increase healthy eating and lower health risks

The Strategic Plan to Eliminate Health Disparities in New Jersey 2007



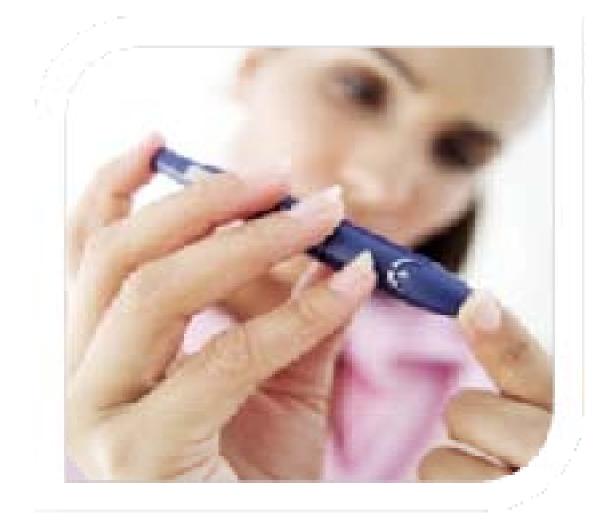
Obesity

Adult obesity is the highest among black and Hispanic and Asian and Pacific Islanders. Incidence and death rates are highest among blacks.



Cardiovascular Disease

Blacks have the highest death rates from heart disease and from stroke.



Diabetes

The prevalence of the disease is highest among blacks. Death are 2 times more likely among blacks and blacks are more likely than any other group to develop end stage renal disease or have a lower limb amputated as a result of the disease.

Sources:

BMI (Body Mass Index)- The measurement of choice as an indicator of healthy weight, overweight and obese

How to Calculate your BMI?

Height (Inches²)

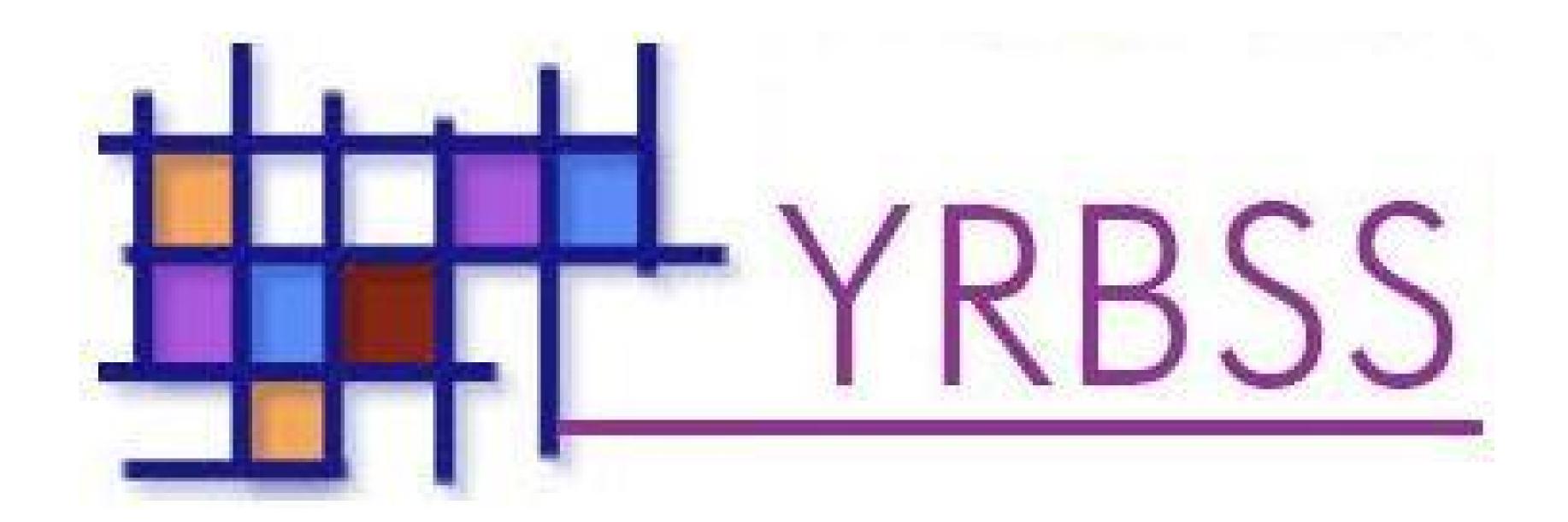
Healthy Weight	Overweight	Obese
BMI of 17.6 -24.9	BMI of 25-29.9	BMI of 30- 99.8

* Can you identify the BMI category of each student?

YRBSS

Public Health Objective 2:

To collect data from YRBSS to assess overweight and obesity levels of the 9th grade community



YRBSS contains statistical data on the percentages of overweight and obese 9th graders

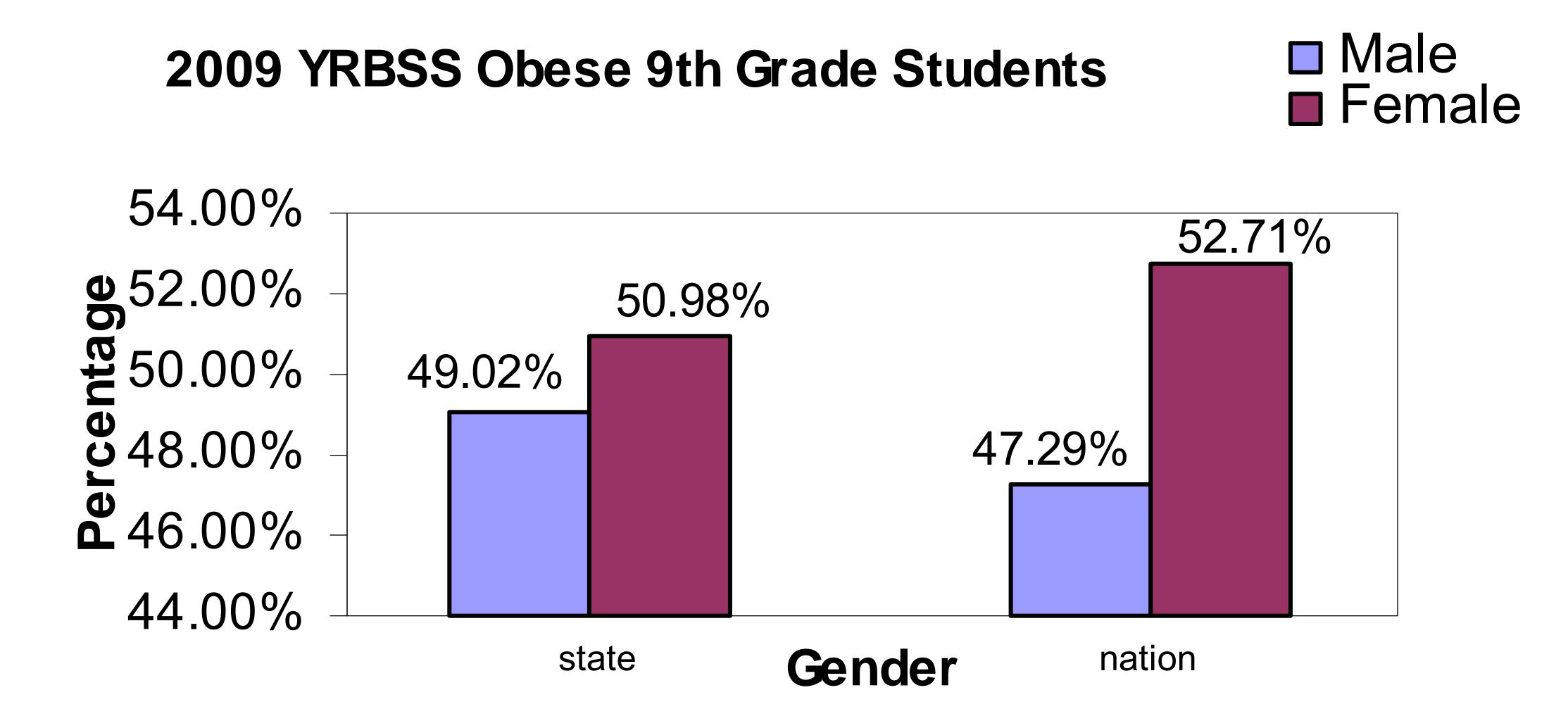
Data Variables:

- Nation
- State
- 9th Grade Obese Students
 - o Gender
 - o Race



YRBSS

Gender	9th Grade for State	Percentage for State	9th Grade for Nation	Percentage for Nation
Male	1,843	49.02%	183	47.29%
Female	1,917	50.98%	204	52.71%
Total	3,760	100%	387	100.00%



Significant Findings: There are about or close to 50% of both males and females who are obese in the 9th grade on a national and state level

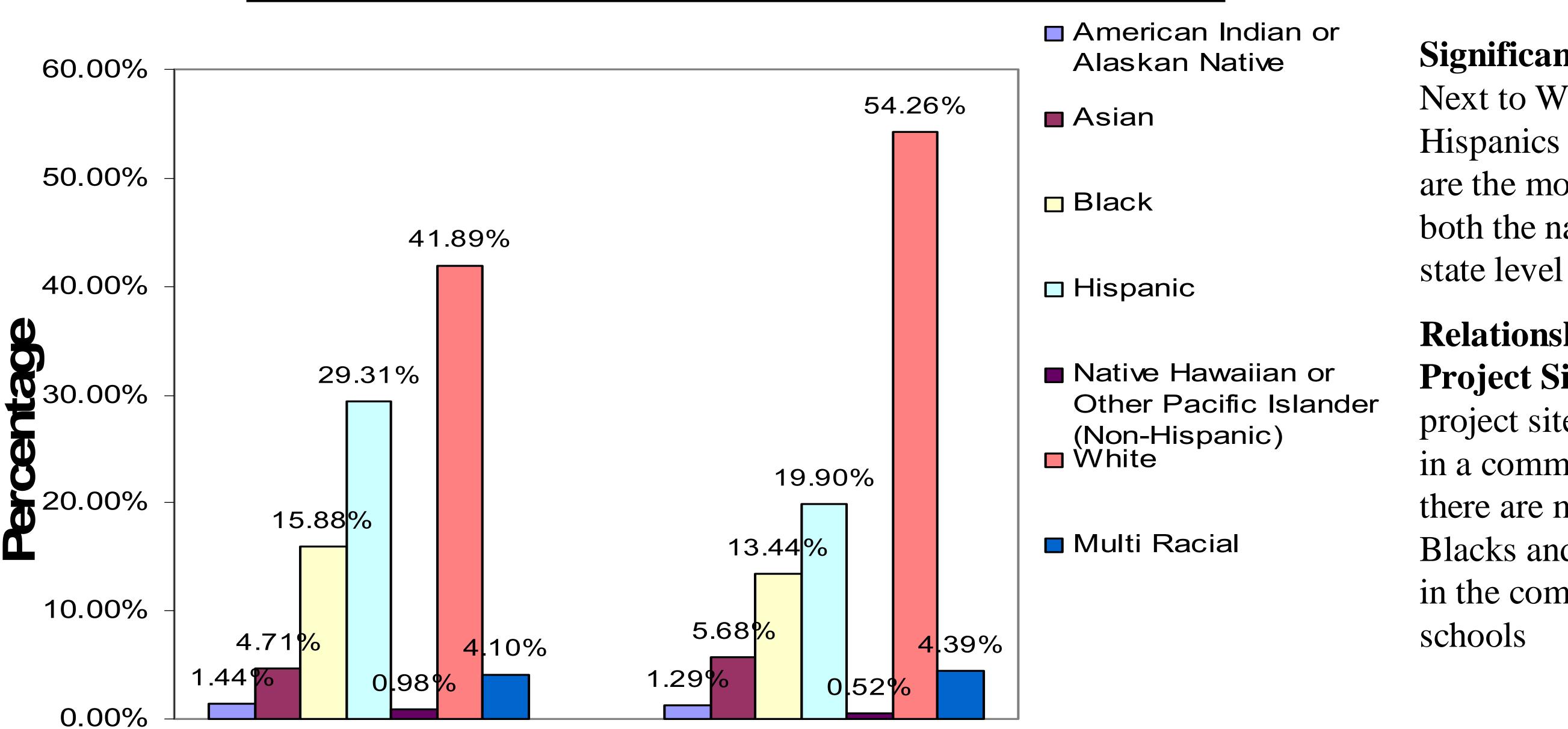
Relationship to the Project
Site: Public Health is studying
obesity in children and
adolescents

Source: 2009 YRBSS

YRBSS

Race	9th Grade for State	Percentage for State	9th Grade for Nation	Percentage for Nation
American Indian or Alaskan Native	5	1.29%	54	1.44%
Asian	22	5.68%	177	4.71%
Black	52	13.44%	597	15.88%
Hispanic	57	19.90%	1,102	29.31%
Native Hawaiian or Other Pacific Islander (Non-Hispanic)	2	0.52%	37	0.98%
White	210	54.26%	1,575	41.89%
Multi Racial	17	4.39%	154	4.10%
Total	387	100%	3,760	* 98.30%

2009 YRBSS Obese 9th Grade Students



State

Significant Findings:

Next to Whites, Hispanics and Blacks are the most obese on both the national and

Relationship to the Project Site: Our

project site is located in a community where there are mostly Blacks and Hispanics in the community and

* This data does not add up to 100%

Race

National

Source: 2009 YRBSS

Population Characteristics

Goal: Identify the People who will be impacted by the project

Objectives:

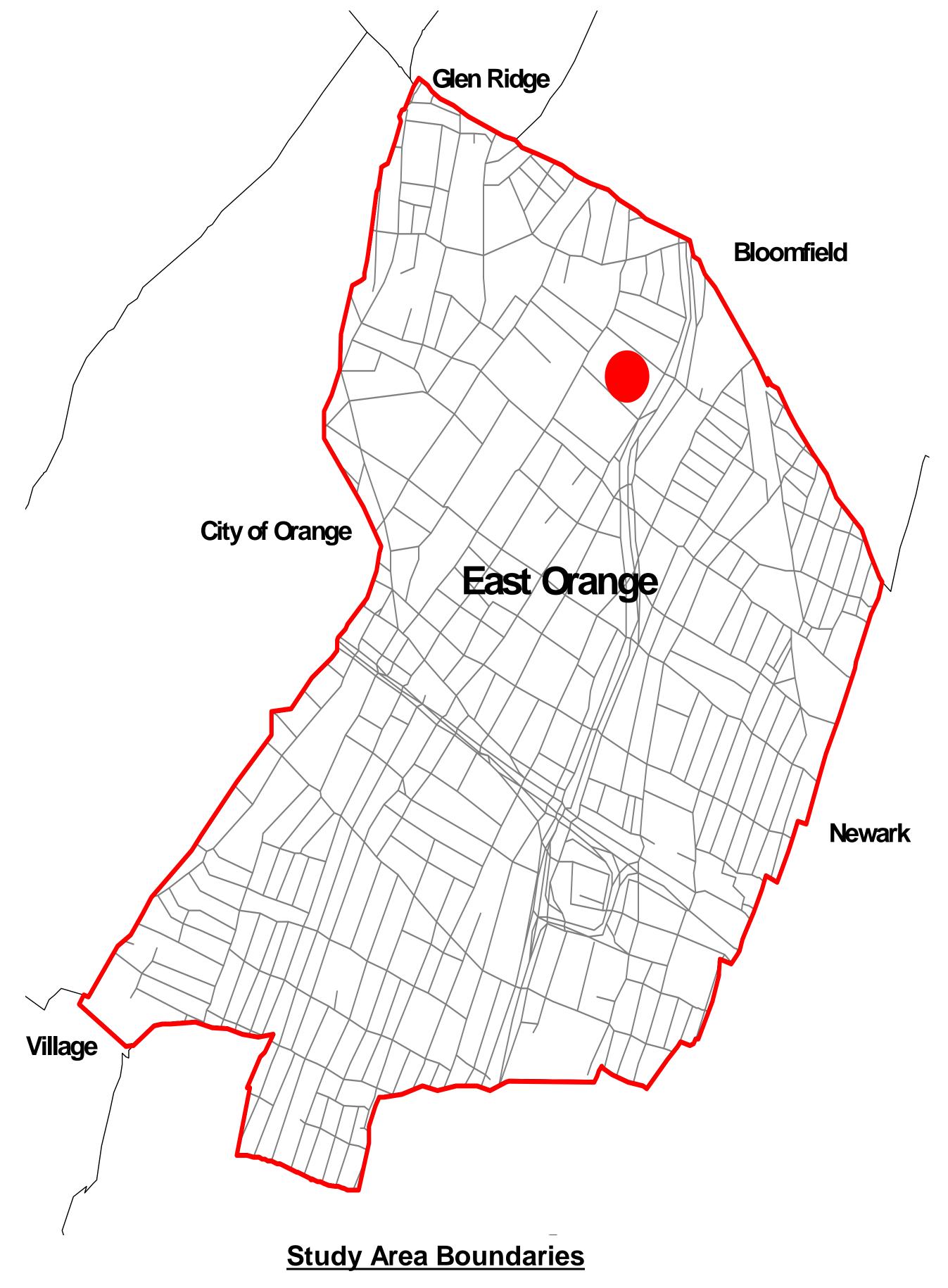
• Create a Study Area Map

• Identify Population Characteristics from the U.S. Census Bureau (2000 data) by using social variables

Social:

• Total Population, Age Distribution, & Racial Distribution





North: Bloomfield, Glen Ridge, & Montclair

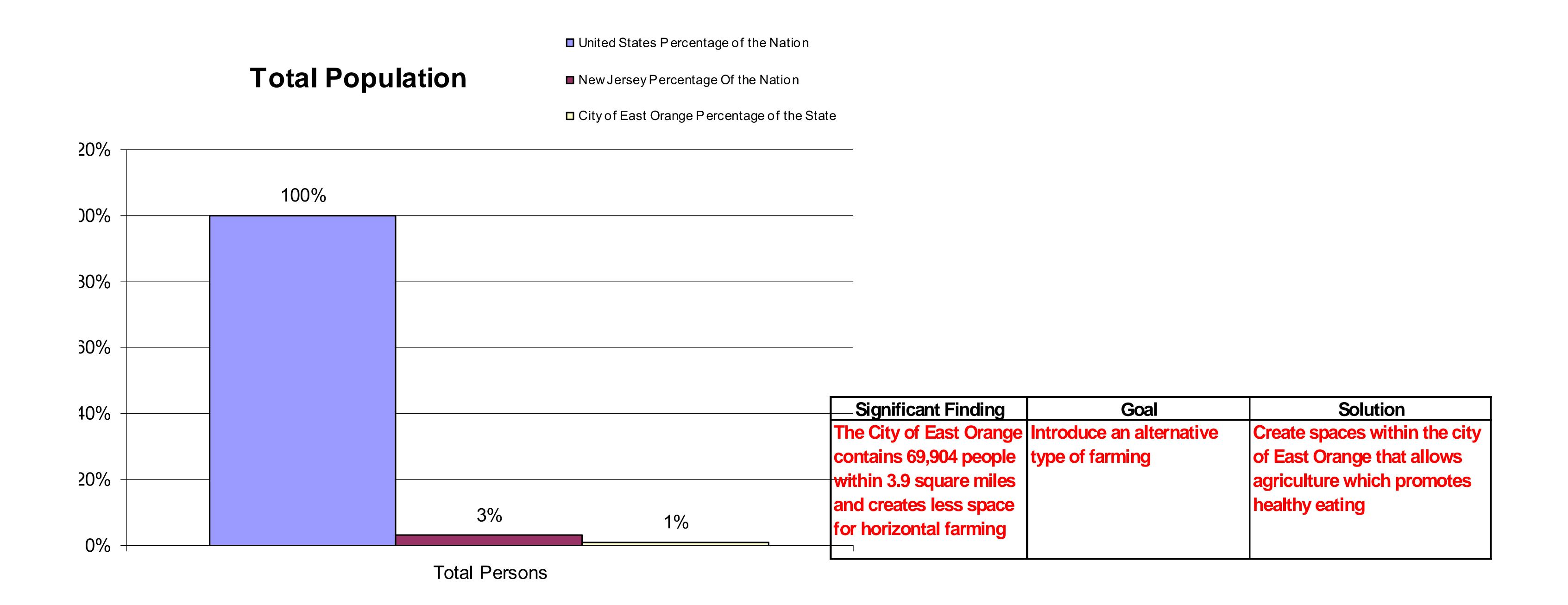
South: South Orange & Irvington

East: Newark

West: Orange & West Orange

Total Population

		United States Percentage of		New Jersey Percentage Of		City of East Orange Percentage of the
Total Population (2000)	United States	the Nation	New Jersey	the Nation	City of East Orange	State
Total Persons	281,421,906	100%	8,414,350	3%	69,904	1%



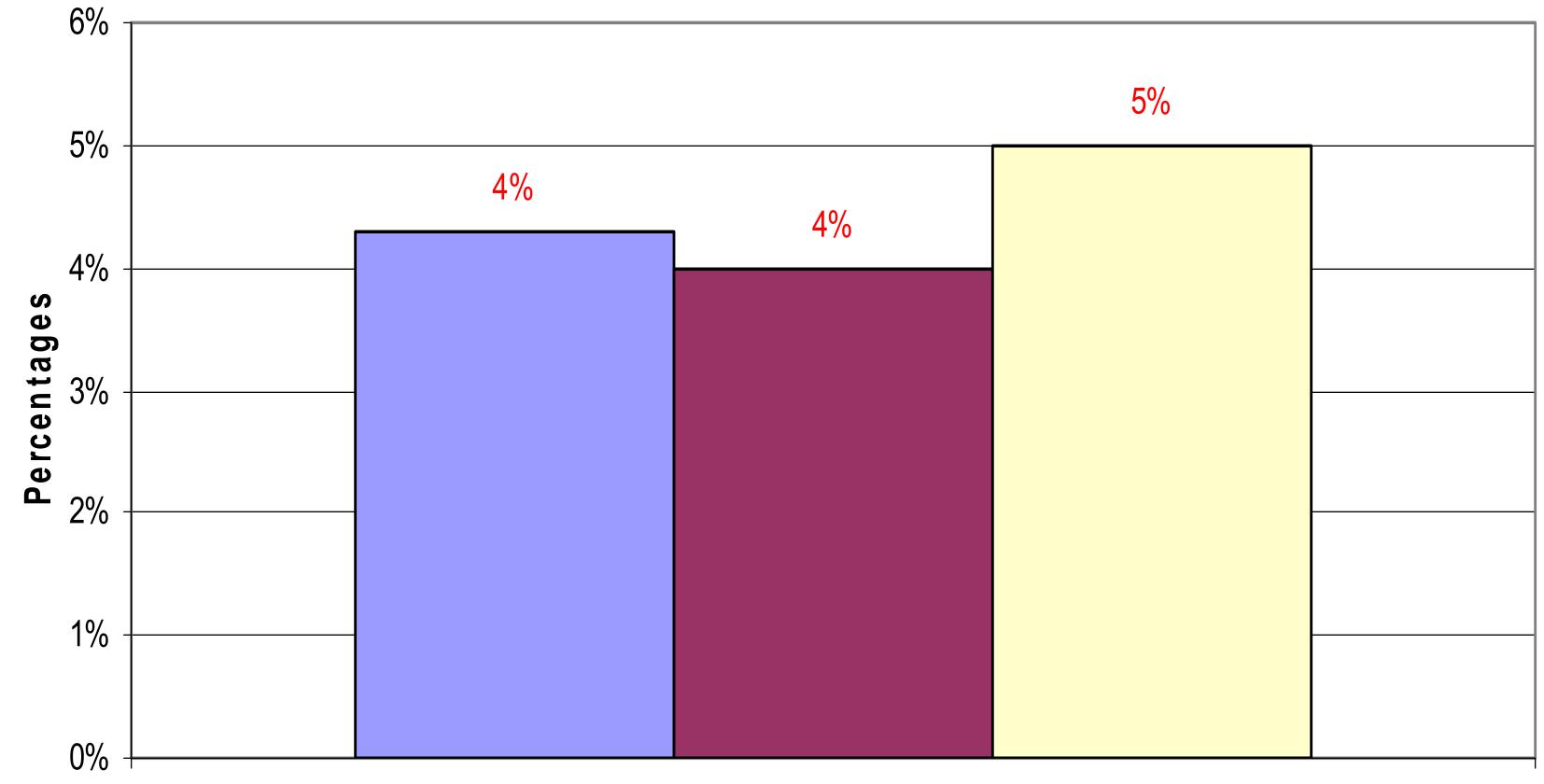
Age Distribution for Persons of 13-15 Years of Age

Age Distribution for Persons of 13-15		United States Percentage of		New Jersey Percentage of the		City of East Orange Percentage of the
years of Age	United States	the Nation	New Jersey	Nation	City of East Orange	State
Under 1	3,827,009	1%	110,878	1%	1,273	2%
1-2 years	7,518,721	3%	219,259	3%	1,997	3%
3-4 years	7,701,024	3%	227,945	3%	2,377	3%
5-6 years	8,003,836	3%	237,520	3%	2,270	3%
7-12 years	25,101,288	9%	736,332	9%	6,591	9%
13-15 years	12,101,951	4%	336,261	4%	3,227	5%
16-18 years	11,914,174	4%	314,882	4%	2,815	4%
19-29 years	42,254,508	15%	1,109,432	13%	11,073	16%
30-39 years	43,448,450	15%	1,376,526	16%	10,935	16%
40-49 years	43,003,261	15%	1,339,516	16%	9,347	13%
50-54 years	17,397,482	6%	543,606	6%	3,943	6%
55-65 years	24,171,230	9%	749,158	9%	6,125	9%
65+ years	34,978,972	12%	1,113,035	13%	7,931	11%
Total Persons:	281,421,906	100%	8,414,350	100%	69,904	100%

United States Percentage of the Nation

Age Distribution for Persons of 13-15 Years of Age

- New Jersey Percentage of the Nation
- ☐ City of East Orange Percentage of the State



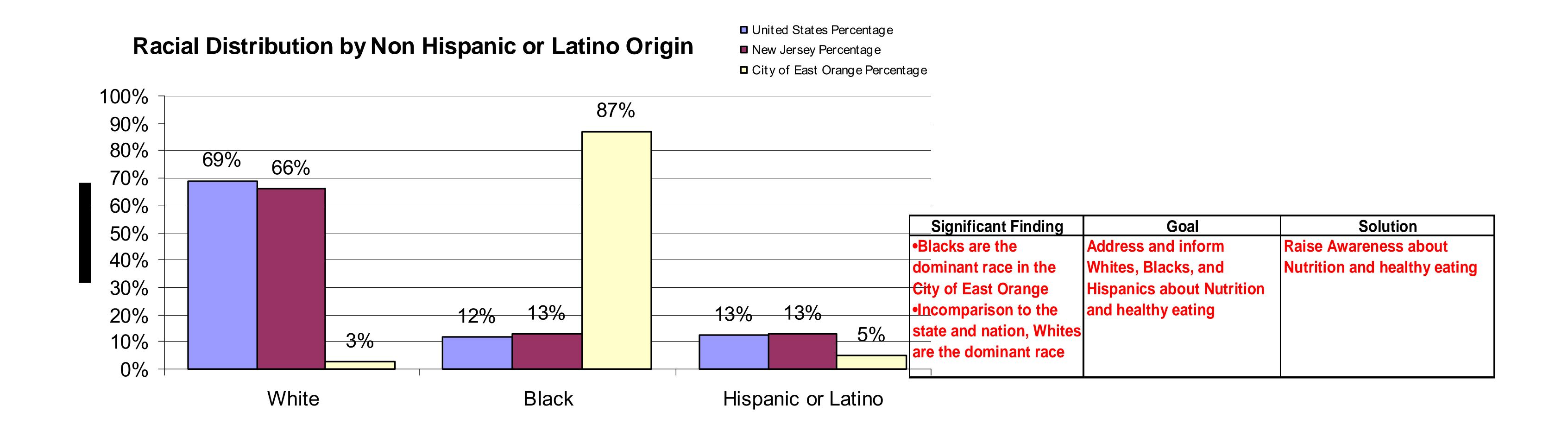
Significant Finding	Goal	Solutions
•9th graders in the age	Address nutrition and	 Raise awareness of obesity
group of 13-15 year olds	healthy eating amongst the	among 9th graders
make up 5% of the City	age group of 13-15 years of	 Incoropate healthy eating in
of East Orange's	age in the United States,	all schools meals
population	New Jersey, and the City of	(breakfast,lunch,snacks)
Also in the United	East Orange	 Introduce nutrition to
States and New Jersey		vending machines in all
the age group of 13-15		schools
year olds makes up 4%		
of the population		

13-15 years

Source: U.S Census Bureau (2000

Racial Distribution by Non Hispanic or Latino Origin

				New Jersey		
		United States		Percentage of the		The City of East Orange
Racial Distribution	United States	Percentage of the Nation	New Jersey	State	City of East Orange	Percentage of the City
Non Hispanic or Latino	246,183,425	87%	7,298,201	87%	66,609	95%
White	194,514,140	69%	5,554,478	66%	2,103	3%
Black	33,707,230	12%	1,085,330	13%	61,147	87%
American Indian	2,091,206	1%	11,798	0.14%	226	0.32%
Asian	10,067,813	4%	478,645	6%	266	0.38%
Others	5,803,036	2%	167,950	2%	2,867	4%
Hispanic or Latino	35,238,481	13%	1,116,149	13%	3,295	5%
Total:	281,421,906	100%	8,414,350	100%	69,904	100%



Identifying the Neighborhood

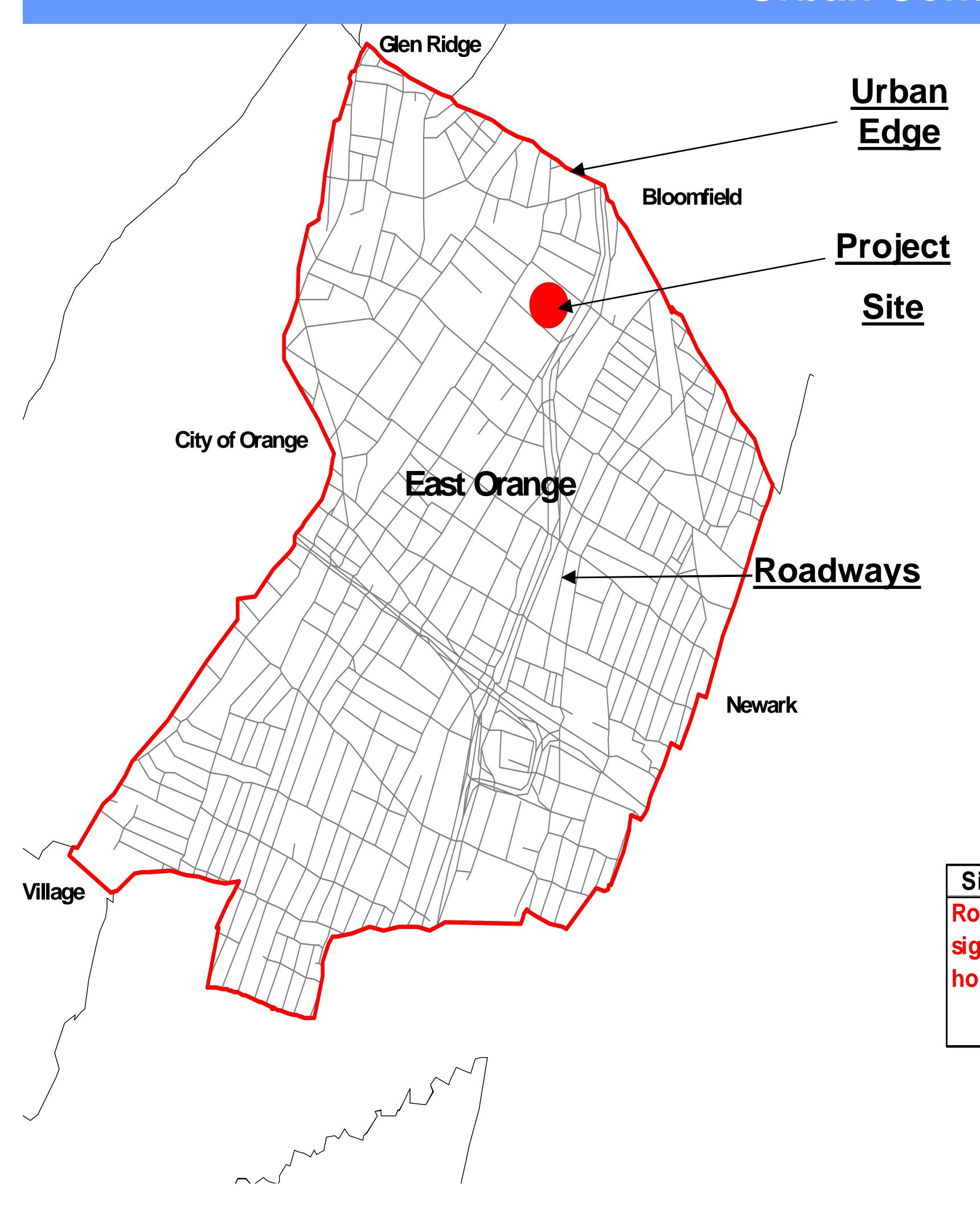
Goal: To Understand the Urban Environment

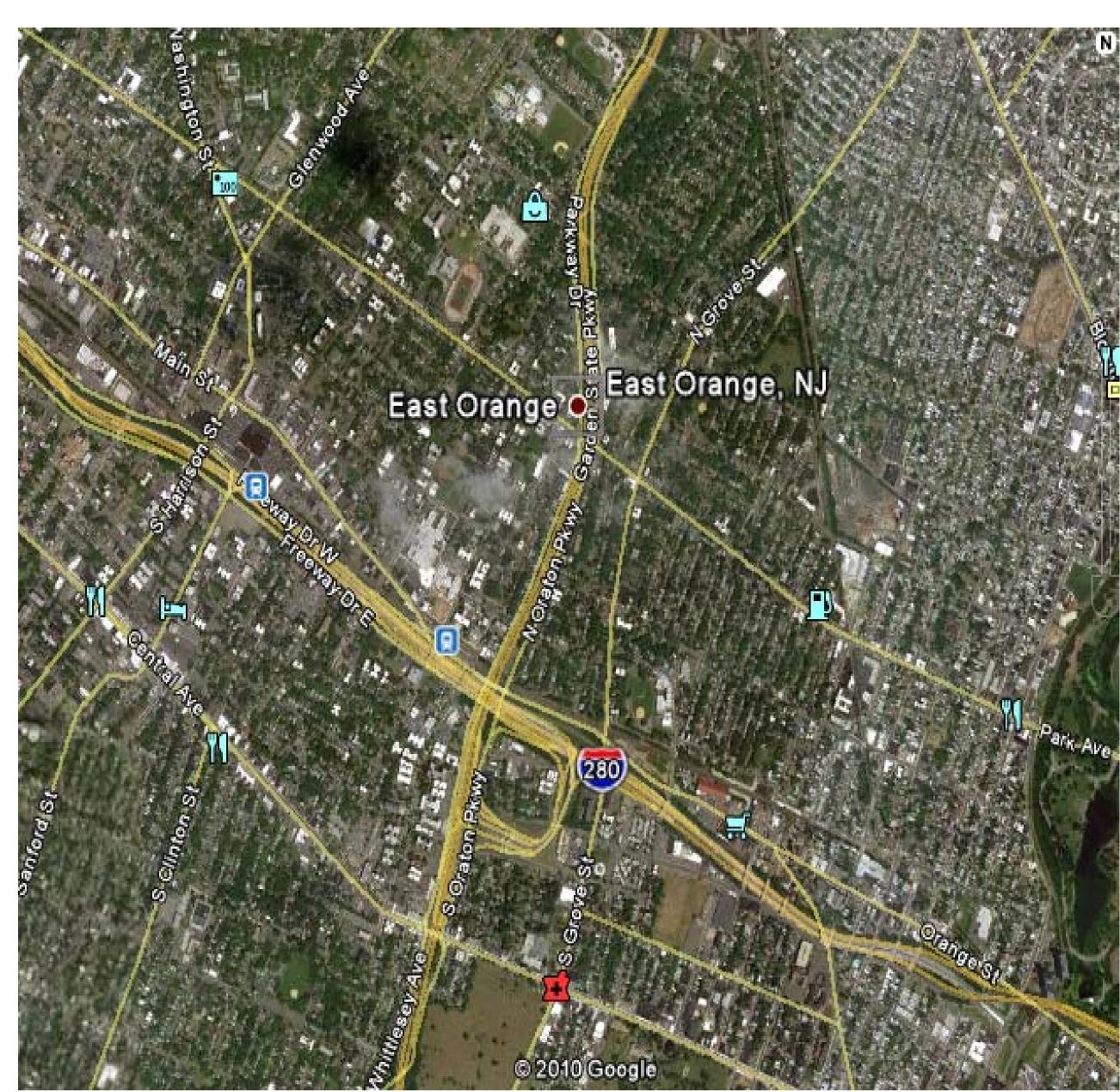
Objective:

- Identify the Urban Context
- •Identify the different land uses and how they have an impact on the project site
- Review and analyze the zoning ordinance



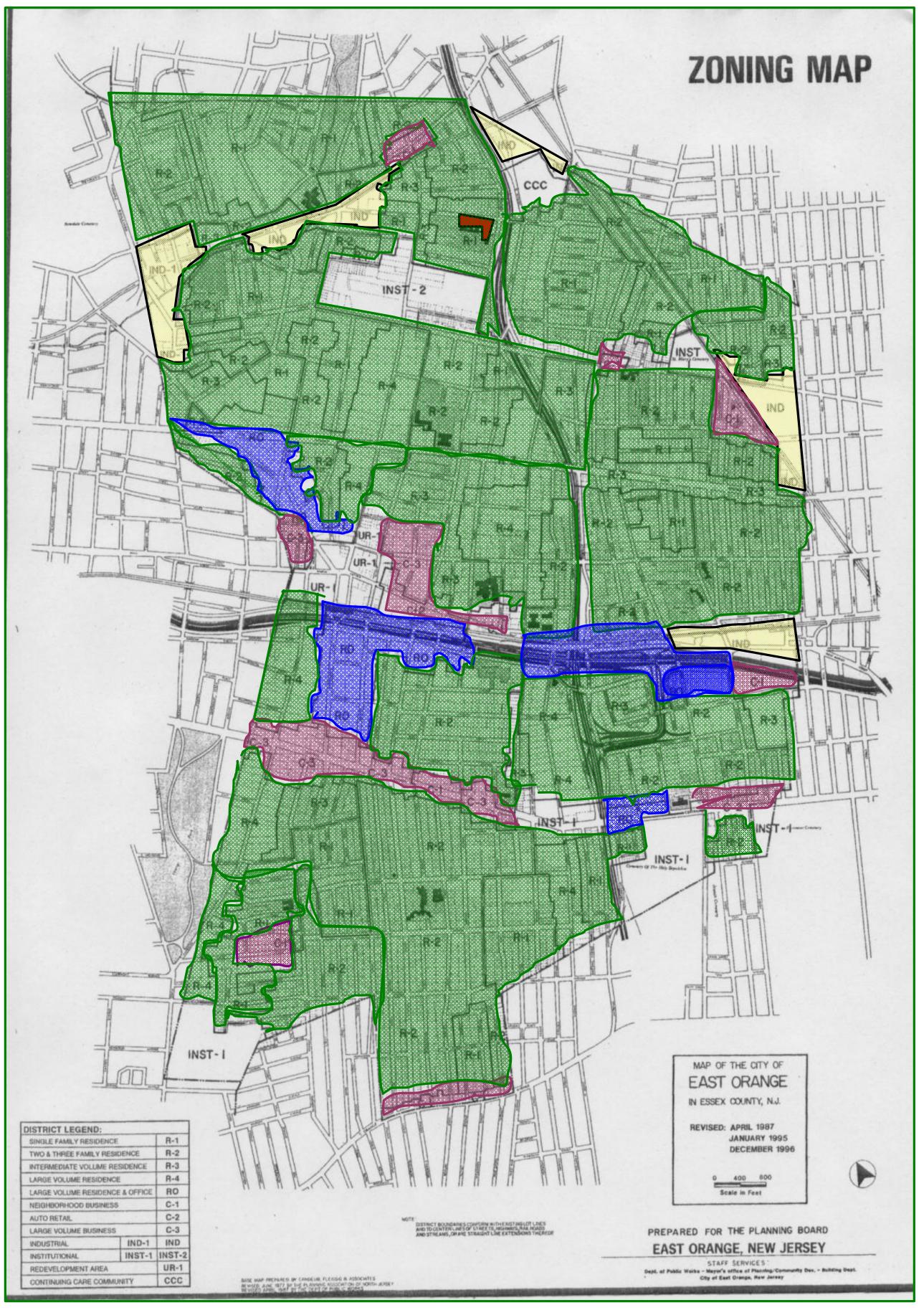
Urban Context





	cant Findings
tricts	ys take up a
nd that	int amount of
d for	tal land
4	

Built Environment



<u>Legend</u>

- Industrial District
- Commercial District
- Project Site
- Residential District
- Mix-use District

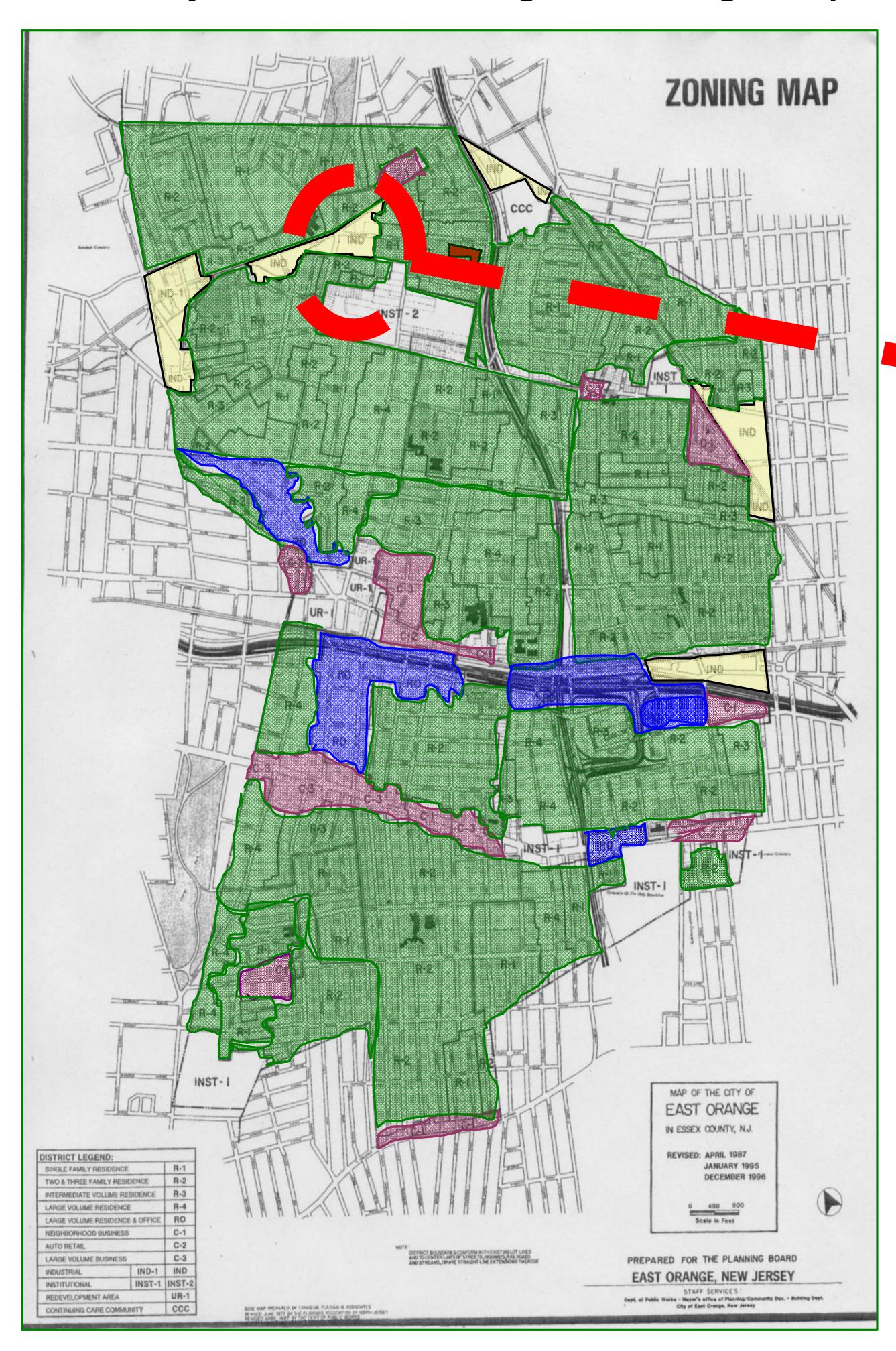




Significant Finding	Goal	Solution
vertical to address the	production	Target industrial districts and underutilized land that can possibly be used for urban farming

Zoning

The City of East Orange Zoning Map



Legend Industrial District



Existing Industrial Vacant Building Site

Existing Site is estimated 3.78 acres









Significant Finding	Goal	Solution
		To become an established district in the zoning ordinance

Recommendations and Vision

Goal:

Develop recommendations for Urban Farming

Objective:

•Research Case Studies

Recommendation 1 - Provide Nutrition facts in fast food restaurants in the community

Recommendation 2 - Inform the community on the benefits of vegetables

Recommendation 3 - Create Local Gardens in the Communities









"Living Tower" by SOA Architects

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Recommendation 1 - Provide Nutrition facts in fast food restaurants in the community



BK Whopper

Nutrition Facts

Serving Size: (291g)

Amount Per Serving

Calories 700 Calories from Fat 370

		% D	aily Value*
otal Fat	42 g		65%
Saturati	ed Fat	13 g	65%
Trans Fa	et .		

Cholesterol85 mg28%Sodium1020 mg42%

17%

Potassium

Total Carbohydrate 52 g

Dietary Fiber 4 g	16%
Sugars 8 g	
Sugar Alcohols	

<u>Protein</u> 31 g	
Vitamin A 1000 IU	20%
Vitamin C 9 mg	15%

 Calcium
 100 mg
 10%

 Iron
 5.4 mg
 30%

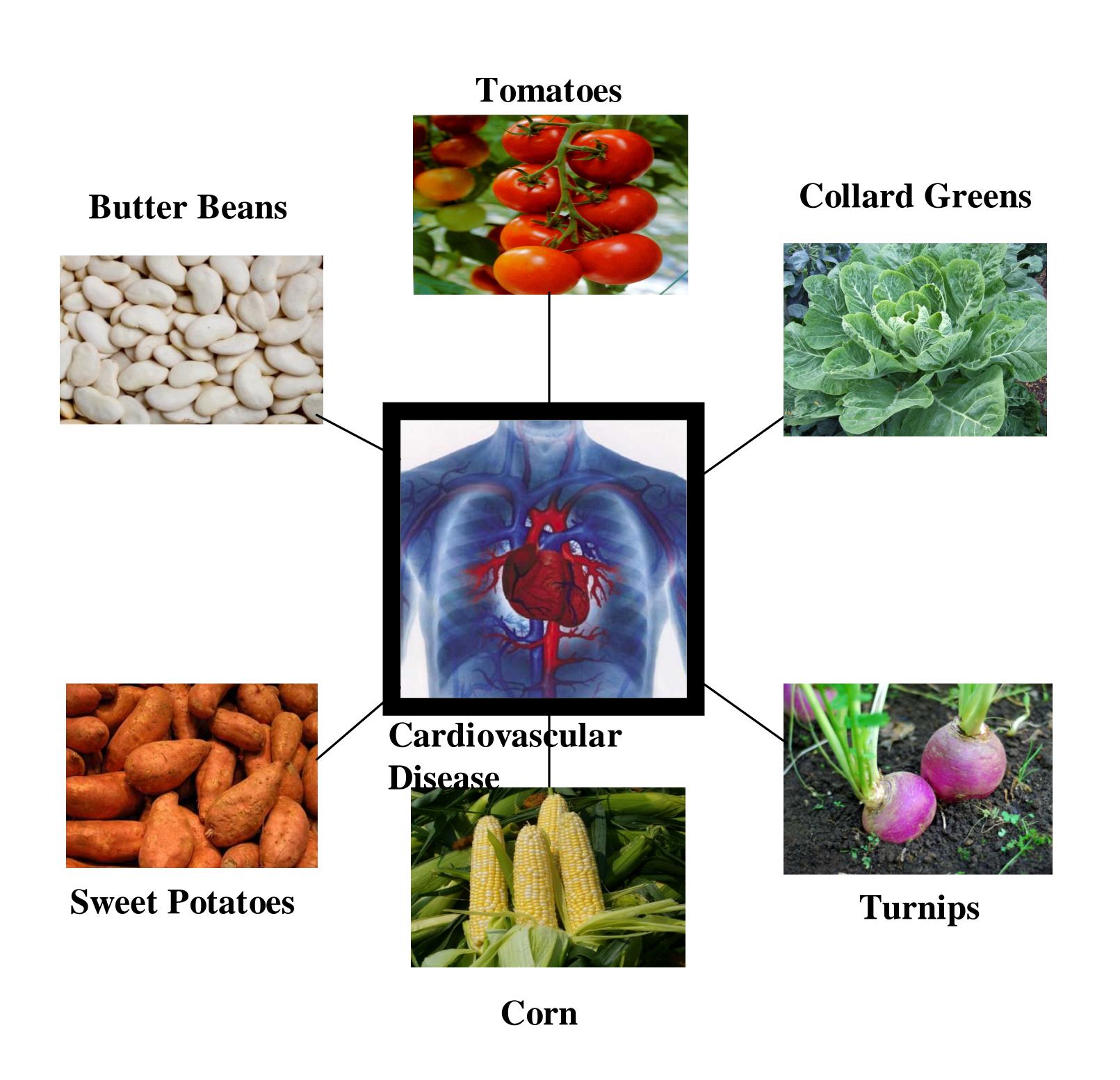
According to Healthy People 2010 there is too much consumption of saturated fat



																,
Sandwiches																
6 Grams of Fat or Less	Serving Size (g)	Calories	Calories From Fat	Total Fat (g)	Saturated Fat (g)	Trans Fats (g)	Cholesterol (mg)	Sodium (mg)	Carbohydrates (g)	Dietary Fiber (g)	Sugars (g)	Protein (g)	Vitamin A (%DV)	Vitamin C (%DV)	Calcium (%DV)	Iron (%DV)
6" Ham (Black Forest, without cheese)	225	290	40	4.5	1.0	0	20	1200	47	5	7	18	8	20	4	20
6" Oven Roasted Chicken	239	320	40	4.5	1.5	0	25	750	49	5	7	23	8	30	6	15
6" Roast Beef	239	310	40	4.5	1.5	0	25	840	46	5	6	26	8	20	4	25
6" Turkey Breast	225	280	30	3.5	1.0	0	20	910	47	5	6	18	8	20	6	15
6" Veggie Delite®	169	230	20	2.5	0.5	0	0	410	45	5	5	8	8	20	4	15

Recommendation 2 - Inform the community on the benefits of vegetables

Tomatoes





Nutrition Facts		
Amount Serving: 1 cup (149g)		
Calories: 27		
Calories from Fat: 2g		
Total Carbohydrate: 6g		
Dietary Fiber: 2g		
Sugars: 4g		
Vitamin A: 25%		
Calcium: 2%		
Vitamin C: 32%		
Iron: 2%		

• A review of 72 different studies showed consistently that the more tomatoes and tomato products people eat, the lower their risks of many different kinds of cancer

Recommendation 2 - Inform the community on the benefits of vegetables

Green Beans Asthma **Cucumbers Tomatoes**

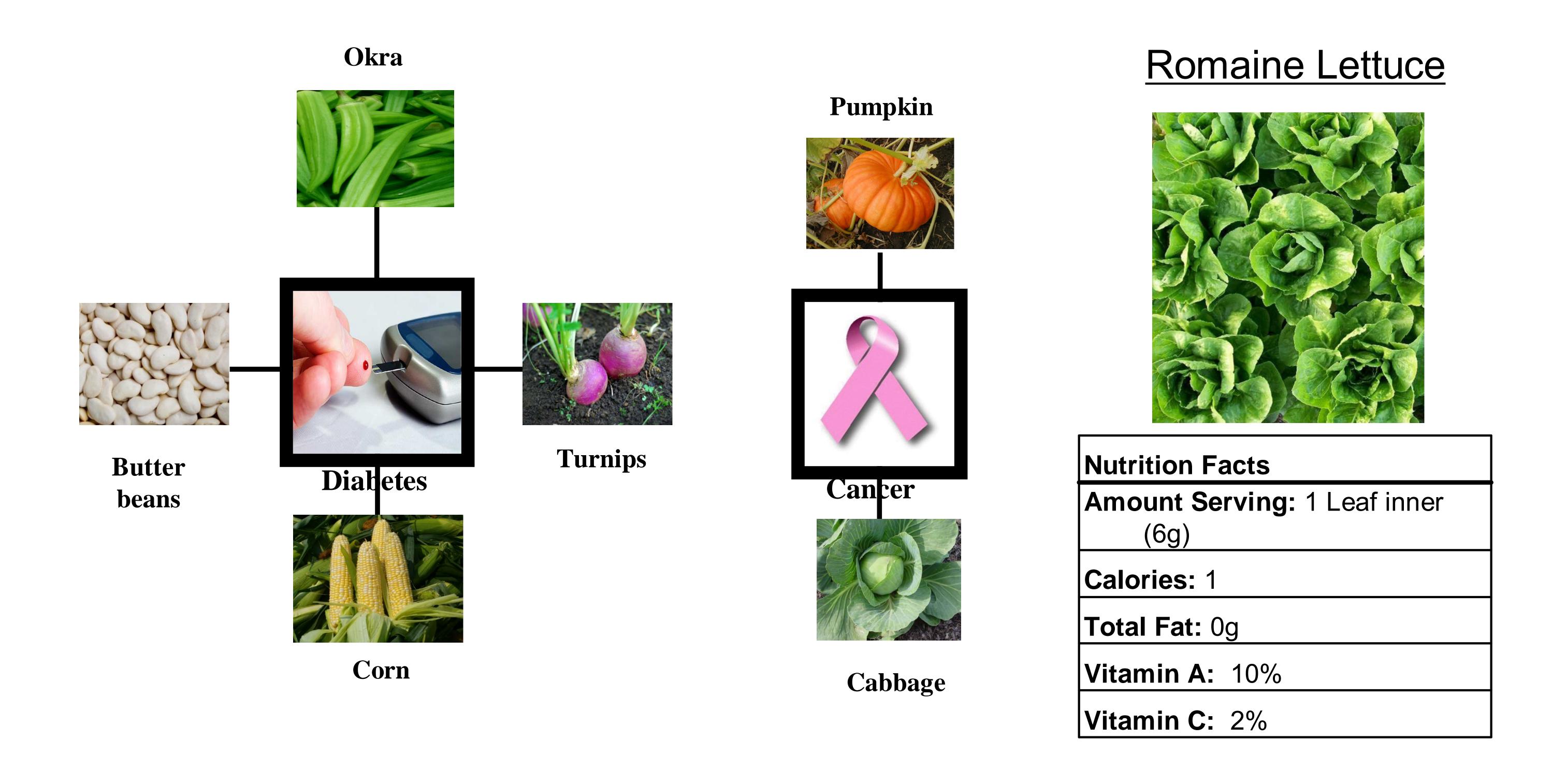
Green Beans



Nutrition Facts			
Amount Serving: 1 cup (110g)			
Calories: 34			
Calories from Fat: 1g			
Sodium: 7mg			
Total Carbohydrate: 8g			
Dietary Fiber: 4g			
Sugars: 2g			
Protein: 2g			
Vitamin A: 15%			
Calcium: 4%			
Vitamin C: 30%			
Iron: 6%			

• The vitamin K provided by green beans is important for maintaining strong bones. Vitamin K is known to be needed to maintain proper bone density and to coagulate blood. It plays a key role in proper development of the fetus.

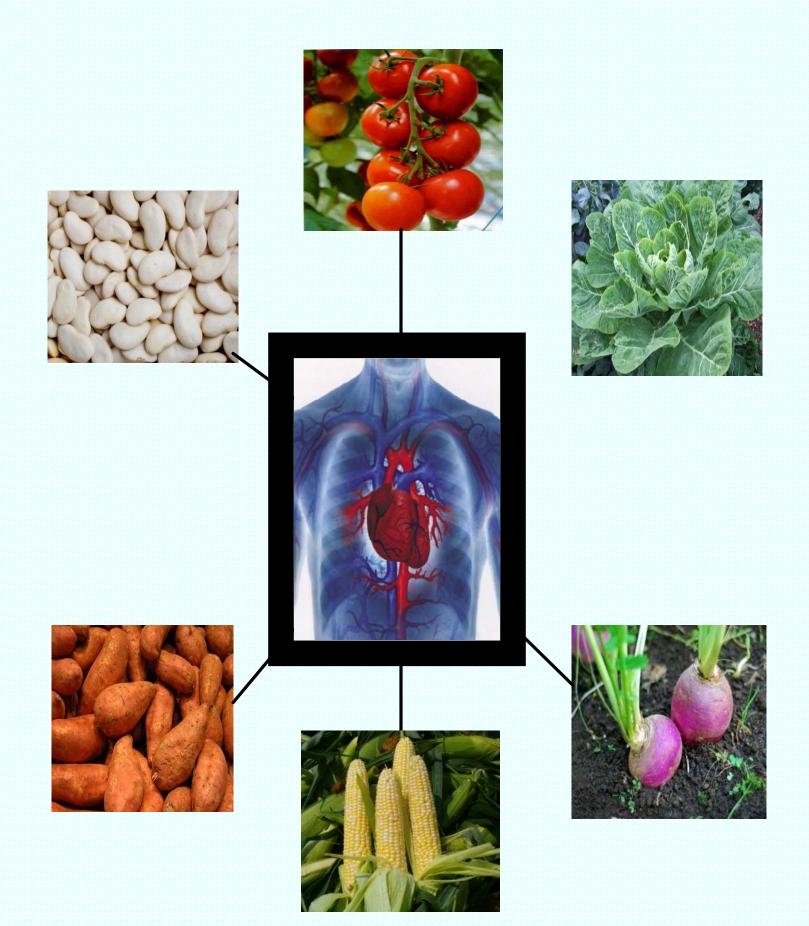
Recommendation 2 - Inform the community on the benefits of vegetables



• Lettuce aids digestion and promotes liver health. It can also reduce the risk of heart disease, stroke and cataracts. Other research shows it helps reduce the risk of cancer and may ease nervous insomnia.

Courtyards

Courtyard 2



Vegetables Associated with the Reduction of Chronic Disease

Asthma

Cucumbers
String Beans

Cancer

Tomatoes
Okra
Bell Peppers

Cardiovascular disease

Peas
Mustards
Collard Greens

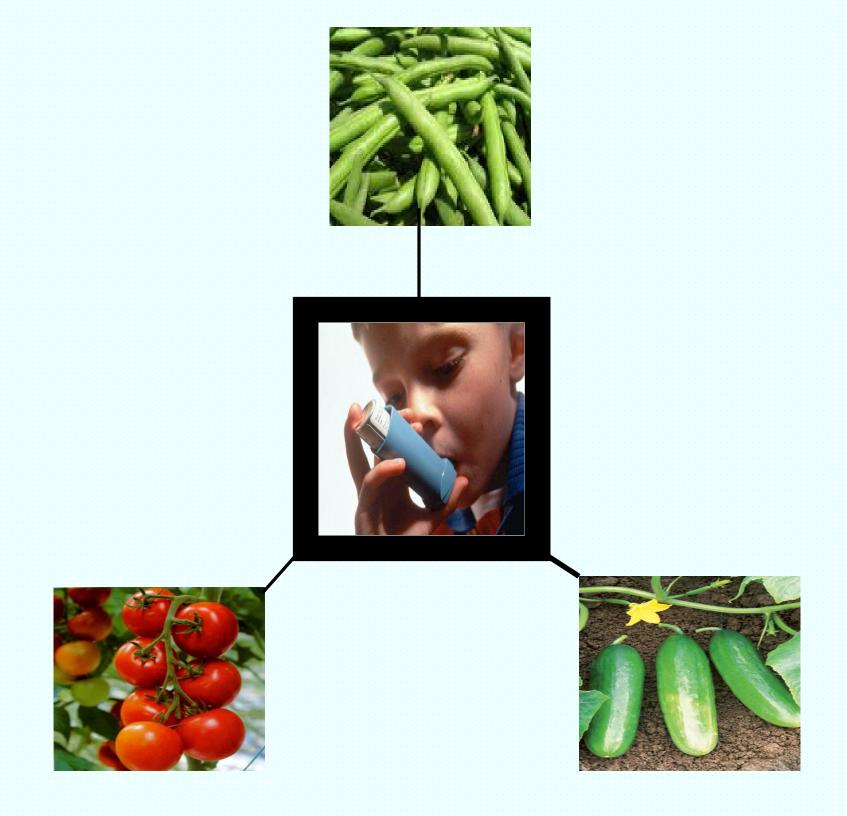
Colon Cancer

Cabbage

Diabetes

Turnips

Courtyard 3



Vegetables Associated with the Reduction of Chronic Disease

Prostate Cancer

Butter Beans

Asthma

String Beans
Cucumbers

Cardiovascular

Disease

Collard Greens Mustard





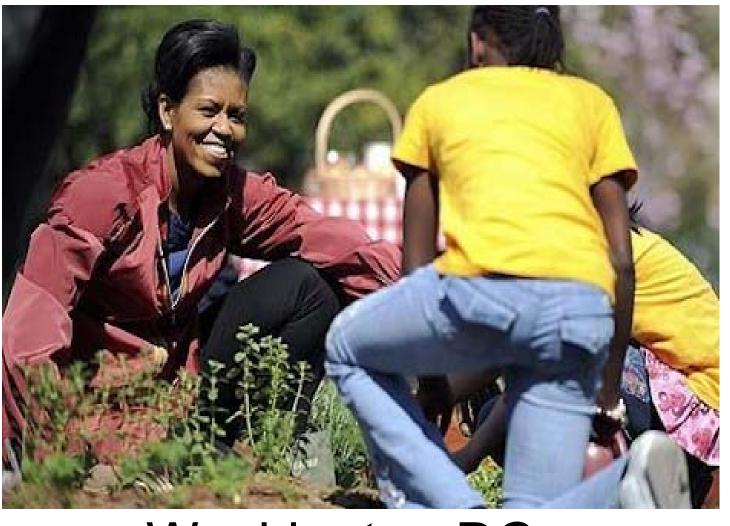
Case Study Research

Case Studies

- •Case Study 1: Eat Right Montana
- •Case Study 2: Lets Move (First Lady Michelle Obama)
- •Case Study 3: Vertical Farming (Concept of Architects Work)
- •Case Study 4: Harvest Green Project (Conceptual Design)
- •Case Study 5: Campus 9 Horizontal Gardening



Helena, Montana



Washington DC





Harvest Green Project

Case Study 1: Eat Right Montana

Location: Montana

When: March 2010

Overview:

•Optimal health through nutrition, fitness and wellness for Montanans

Significant Findings:

- •Not enough Montanans are participating in daily fitness, and eating nutritionally
- It started as a small scale project and turned into a state wide initiative

Recommendations:

- •To inform children and their families in Montana about growing vegetables while reusing and recycling materials to explore nutrition from the ground up
- •To encourage kids to grow nutrient-rich produce themselves, thus teaching them good eating habits for a lifetime of good health





Three Sisters



http://www.dphhs.mt.gov/images/eatright.gif http://www.eatrightmontana.org/eatrighthealthyfamilies.htm

Case Study 2: Let's Move

Location: United States of America

When: February 2, 2010 – 2030

Overview:

- Childhood Obesity Action Plan
- •To increase the health in children in the nation over the next few years

Significant Findings:

- •Deep fryers are being used in schools
- •Children today consume a substantial amount of added sugars through a whole range of products Many children in this nation are obese

Recommendations:

- •Analyze the effect of state and local sales taxes on less healthy, energydense foods
- •Having pediatricians measure children's Body Mass Index in order to track healthy weight
- •Entertainment and technology companies should continue to develop new approaches for using technology to engage children in physical activity
- •Pair chefs with interested schools in the community so together they can create healthy meals that meet the school's dietary guidelines and budgets, while teaching young people about nutrition and making balance and healthy choices



America's Move to Raise a Healthier Generation of Kids





Case Study 3: Vertical Farming

Overview:

Vertical farms, many stories high, will be situated in the heart of the world's urban centers. If successfully implemented, they offer the promise of urban renewal, sustainable production of a safe and varied food supply (year-round crop production), and the eventual repair of ecosystems that have been sacrificed for horizontal farming.

Issue:

The earth Population will reside in urban centers

Advantages:

- Year-round crop production; 1 indoor acre is equivalent to 4-6 outdoor acres or more, depending upon the crop
- No weather-related crop failures due to droughts, floods, pests
- All VF food is grown organically: no herbicides, pesticides, or fertilizers
- VF virtually eliminates agricultural runoff by recycling black water
- VF returns farmland to nature, restoring ecosystem functions and services
- VF greatly reduces the incidence of many infectious diseases that are acquired at the agricultural interface
- VF dramatically reduces fossil fuel use (no tractors, plows, shipping.)
- VF converts abandoned urban properties into food production centers
- VF creates sustainable environments for urban centers
- VF creates new employment opportunities
- VF could reduce the incidence of armed conflict over natural resources, such as water and land for agriculture







"Living Tower" by SOA Architects

Case Study 4: Hydroponics

When: 2030

Overview:

The Harvest Green Project is by

Romses Architects

Was a winning entry in

Vancouver's 2030 challenge

Concept based on vertical

farming of vegetables, herbs, fruits, fish, egg laying chickens, and a boutique goat and sheep

dairy facility

Issue:

Space issues with urban context

Wind and energy

Recommendations:

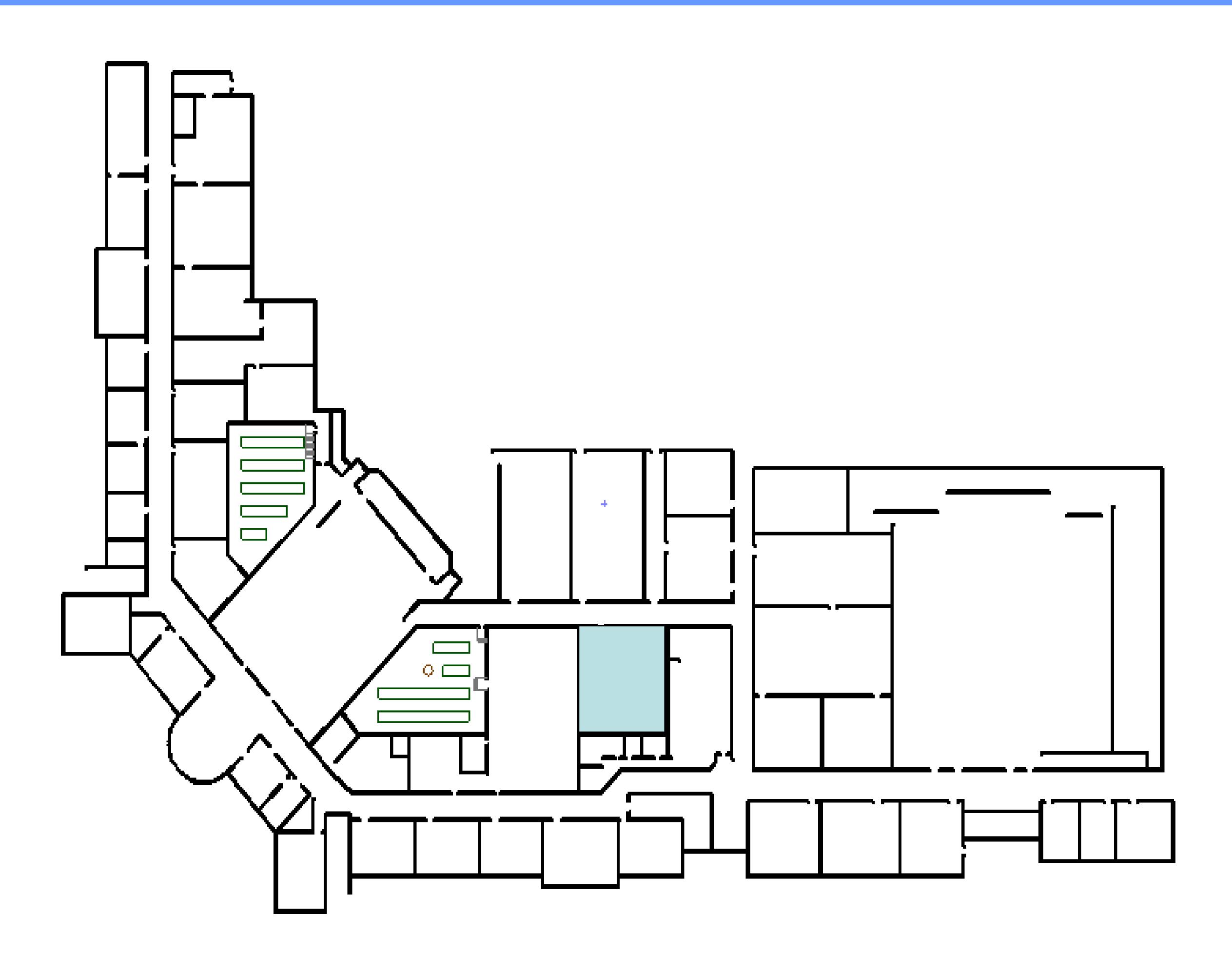
Tower should contain a plant and seed lab, an organic foods store, a supermarket, a harvest restaurant, a transit station, and

underground parking

• The Harvest Green Project represents a potential urban future of mixed-use Modern Architecture



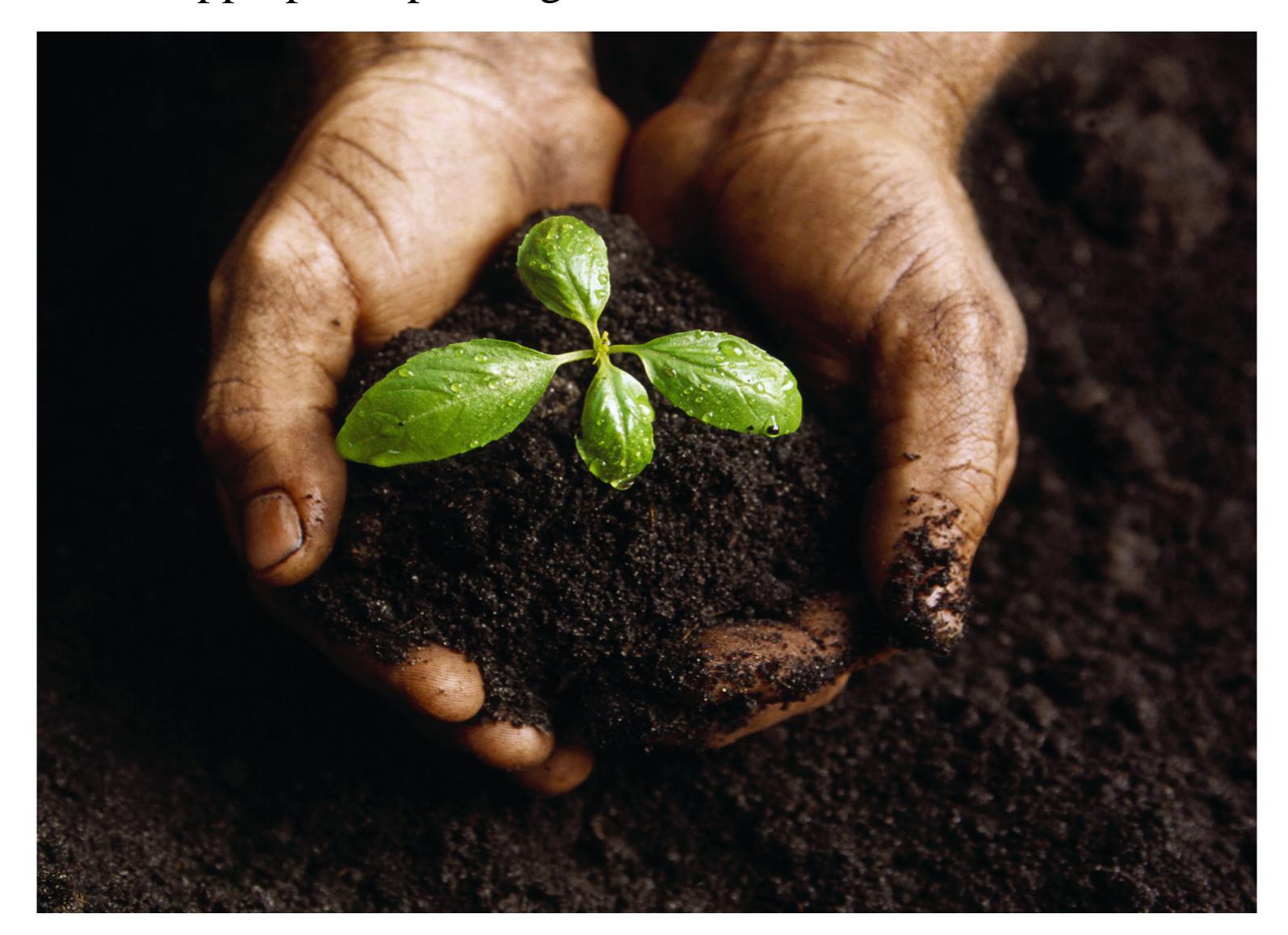
Case Study 5: Campus 9 Horizontal Gardening

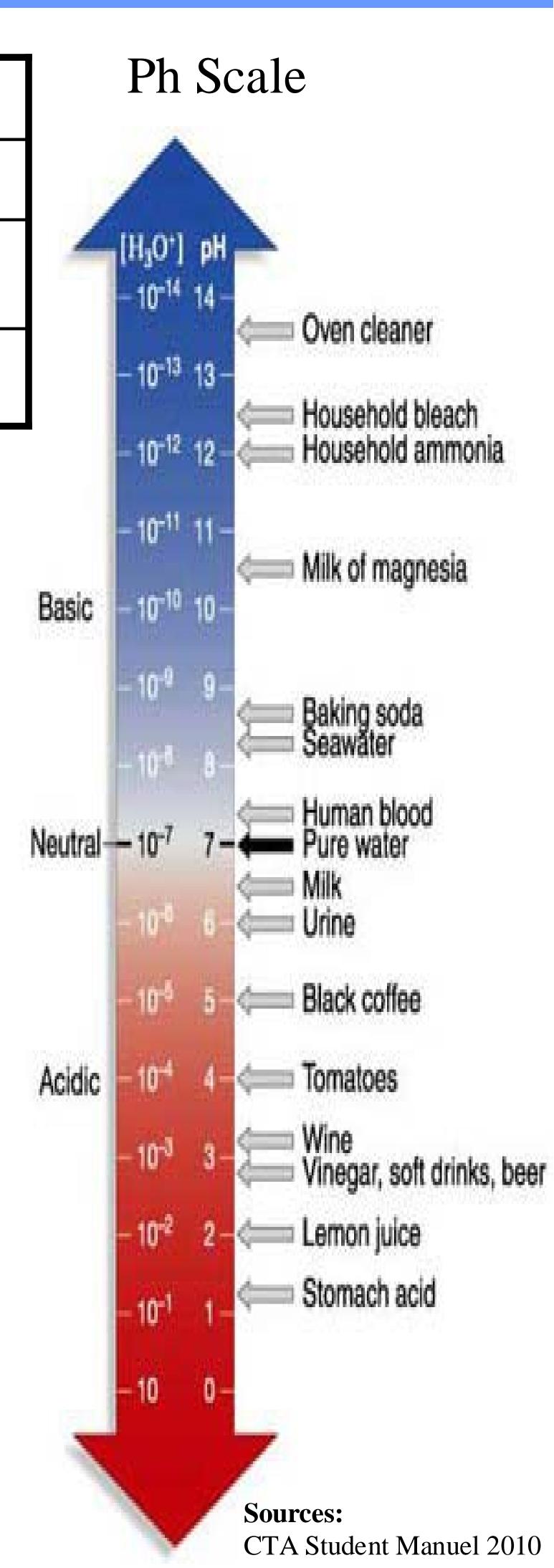


Healthy Soil

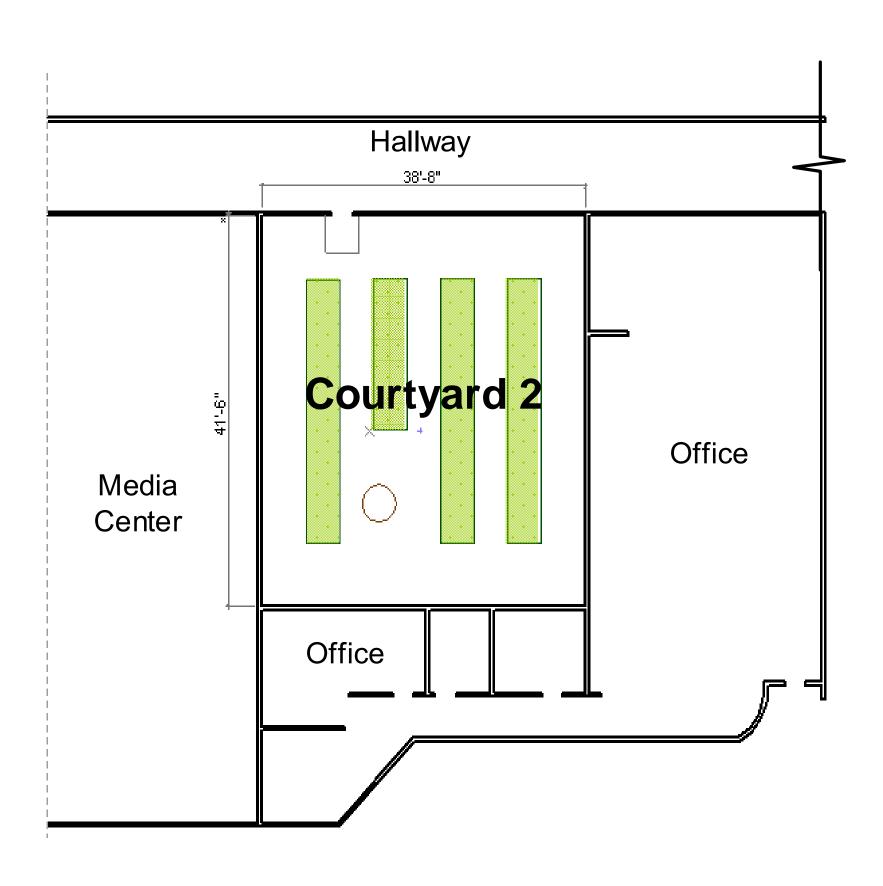
Courtyard	pH Level	Acceptable?
Courtyard 2	7.00 (neutral)	No
Courtyard 3	6.00 (slightly acidic)	No
Courtyard 4	7.10 (slightly alkaline)	No

The pH level is a measurement of the acidity or alkalinity of the soil. The pH level of the soil determines what organisms will be found and the nutrients available for plants. For example, if the pH is low or the soil is acidic there will be high fungal activity. Where the pH is nearly neutral you will find more bacteria activity. For most garden plants, an appropriate pH range is between 6.0-6.8.





Courtyard 2



Project Information					
ltem	Quantity	Unit	Total		
Courtyard	1	1,605 sq.ft.	1,605 sq.ft.		
Raised Bed	4	400 sq.ft.	400 sq.ft.		
Top Soil	1	20 yards	20 yards		

Approximately 40 People can be feed









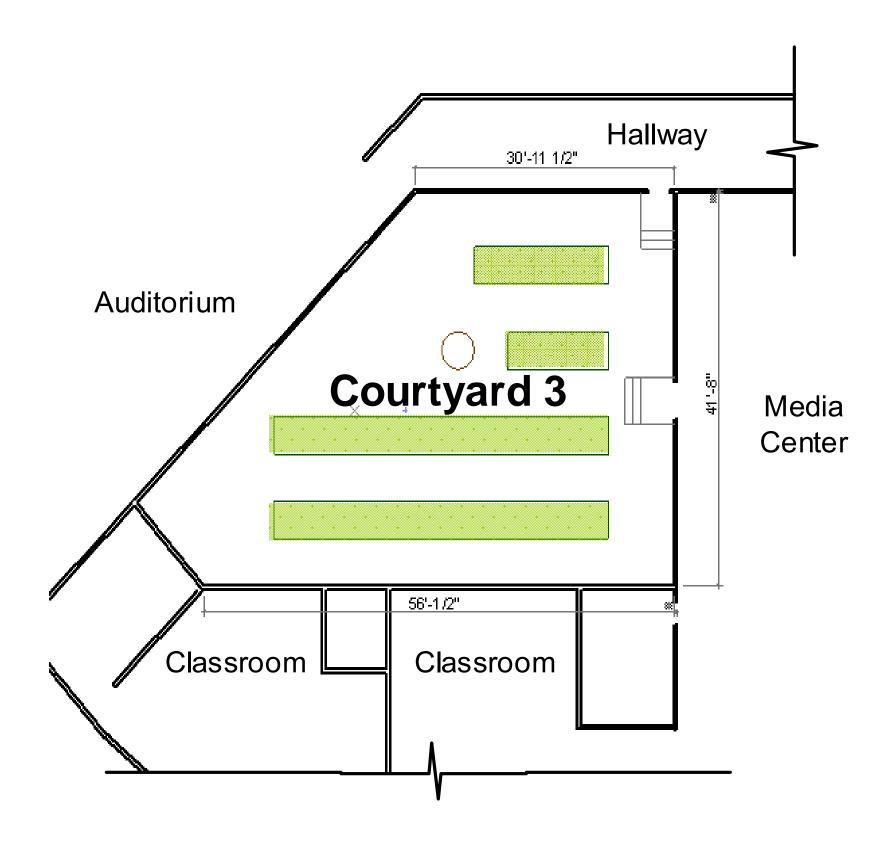
Before





After

Courtyard 3



Project Information					
Item	Quantity	Unit	Total		
Courtyard	1	2,092 sq.ft.	2,092 sq.ft.		
Raised Bed	4	400 sq.ft.	400 sq.ft.		
Top Soil	1	20 yards	20 yards		

Approximately 40 People can be feed









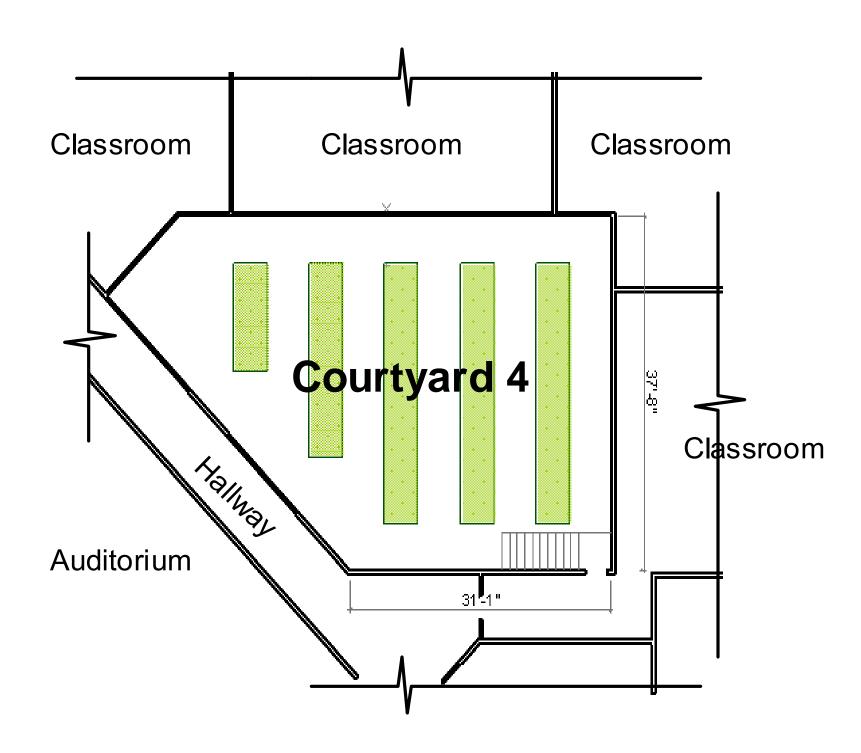
Before





After

Courtyard 4



Project Information					
Item	Quantity	Unit	Total		
Courtyard	1	1,802 sq.ft.	1,802 sq.ft.		
Raised Bed	4	464 sq.ft.	400 sq.ft.		
Top Soil	1	20 yards	20 yards		

Approximately 46 People can be feed













After

Estimated Space Required to Meet the Needs of Fresh Produce

- •Average American eat 200 pounds of fresh produce each year
- •200 pounds of fresh produce = 10 square feet of land
- •43,560 square feet = 1 acre of land

total pop x square feet of land need for the average American per year

The number of square feet equal to one acre

$$\frac{69,904 \times 10 \text{ sf}}{43,560 \text{ sf}} = \frac{699,040 \text{ sf}}{43,560 \text{ sf}} = 16.05 \text{ acres}$$



Existing Industrial Vacant Building Site – estimated 3.78 acres

Goal:

To Address Healthy Eating in Local, State, and National with Prospective Awards

Objective:

To Research Awards to apply for the project

Awards

- Healthy School Program Champion Award
- USDA's Healthier US School Challenge Award (HUSSC)
- •2011 Mantis Awards for Community and Youth Gardens
- Youth Garden Grants Program











Award Name: Healthy School Program Champion Award

<u>Award Description</u>: The Healthy Schools Program Champion award celebrates individuals in schools across the country who are engaging, motivating and leading others to take steps toward creating healthier school environments for students and staff as members of the Healthy School Program







Criteria/Eligibility

To be considered for the Healthy Schools program Champion Award

- •The nominee must be an active member of his or her school wellness council and must have served for at least the 2009-2010 school year.
- •The nominee's school must be an enrolled member of the Healthy schools Program and have completed the first three steps of the Healthy Schools Program's Six steps to a Healthier School Environment in the Healthy schools Builder:
- 1- Convened a school wellness council
- 2- Completed the Healthy schools Program Inventory
- 3- Created an action plan
- •The nominee must be comfortable speaking to his or her own peers and the media about the efforts his or her school has undertaken in creating a Healthier environment for students and staff.
- •An individual must be nominated by someone else; self-nominations are not accepted.

Deadline: The nomination deadline was April 1, 2010

Award Name:

•USDA's Healthier US School Challenge Award (HUSSC)

Award Description:

- •The monetary incentives are available to all schools that achieve HUSSC status by meeting the required criteria.
- •In addition to the plaque, banner and recognition currently provided, HUSSC schools approved un the current criteria will receive the following monetary incentive awards
- •Gold Award of Distinction \$2,000
- •Gold \$1,500
- •Silver \$1,000
- •Bronze \$500
- •All HUSSC award monies must be deposited into the non profit school food service account and used for allowable expenses under that account.

Eligibility/Criteria:

- •The monetary incentives are available to all schools that achieve the "Healthier US School Challenge" status by meeting the required criteria.
- •Schools approved as a HUSSC school under the current criteria, will be eligible for the monetary incentive award

Deadline:

•June 2011



Sources:

http://www.fns.usda.gov/tn/healthierus/application.html

http://www.google.com/imgres?imgurl=https://engineering.purdue.edu/H2biomass/images/l1 page graphics/800px-

USDA_logo.svg.png&imgrefurl=https://engineering.purdue.edu/H2biomass/&h=552&w=800&sz=31&tbnid=KyYXw4lb9qVJ-

M:&tbnh=99&tbnw=143&prev=/images%3Fq%3DUSDA%2Blogo&usg=__fuPRUebWBUoSswOWbNoNfAEGua8=&sa=X&ei=-pJITN6ZFJKcsQPjqO1l&ved=0CBYQ9QEwAA

Prospective Awards for Project

Award Name:

•2011 Mantis Awards for Community and Youth Gardens

Award Description:

- Any Non-Profit Garden program may apply
- •In the past, winners have included schools, churches, correctional facilities, parks departments, youth camps, community gardens, and many others. These are groups turning slim resources into bountiful gardens with far-reaching benefits, from increasing their community access to fresh nutritious foods to educating the public about the importance of gardening in our nation's history
- •Programs will each receive a Mantis Tiller/ Cultivator with border/edger and kickstand, and their choice of gaspowered 2-cycle engine or electric motor. (Value: \$349.00)

Eligibility/Criteria:

- Applicants must operate a charitable or educational program that is not for profit in the United States
- Applicants must not offer the tiller as a fundraising (e.g., auction or raffle

Deadline:

Applications are due March 1, 2011



Sources

•http://www.portable-electric-powergenerators.com/images/powertools/mantis/mantis_logo.jpg

Prospective Awards for Project

Award Name:

Youth Garden GrantsProgram

Award Description:

•The National Gardening Association awards Youth Garden Grants to schools and community organizations with child-centered garden programs. Priority will be given to programs that emphasize educational focus and/or curricular ties, nutrition or plant-to-food connections, and environmental awareness/education.

Eligibility/Criteria:

•Schools, youth groups, community centers, camps clubs, treatment facilities, and intergenerational groups throughout the United States are eligible. Applicants must plan to garden in 2010 with at least 15 children between the ages of 3 and 18 years.

Deadline:

•The deadline has passed for 2010, but there is an option to be notified when applications for the 2011 cycle are available on the website.





Sources

•http://assoc.garden.org/grants/

http://media.photobucket.com/image/Home%20Depot%20 logo/lawasnyder/home_depot_logo.jpg