

URBAN FOOD DESERTS: MEASURING ACCESS TO SUPERMARKETS

Presentation to the 2019 ESRI User Conference, San Diego, CA



FOR OUR COMMUNITY FOR OUR REGION FOR OUR FUTURE





Advisory Board



EXTENSION



- Greater Cleveland Food Bank
- Ohio State University Extension
- Health Improvement Partnership-Cuyahoga
- Food Policy Coalition
- Prevention Research Center at Case Western Reserve University









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Cuyahoga County, Ohio

- 157 Supermarkets
- 459 Square Miles
- Steady/declining population
- High Poverty



Percent of Children Under Age 18 Below Poverty, 2017

Large U.S. Cities, Bottom 10

City	Child Poverty Rate
Cleveland, Ohio	48.7%
Detroit, Michigan	48.2%
Cincinnati, Ohio	46.4%
Buffalo, New York	43.6%
Memphis, Tennessee	39.0%
Newark, New Jersey	35.8%
New Orleans, Louisiana	39.3%
Laredo, Texas	36.2%
Baltimore, Maryland	32.6%
Fresno, California	31.7%

Data Source: U.S. Census Bureau, American Community Survey 2017 1-year estimates Center for Community Solutions, September, 2018.

Goals

Supermarket Access Assessment 2018

• Identify neighborhoods with lower incomes and less access to supermarkets ("food deserts")

Provide timely data to residents, partners and government

• Establish benchmarks and ongoing tracking of supermarket closures and implementation plans



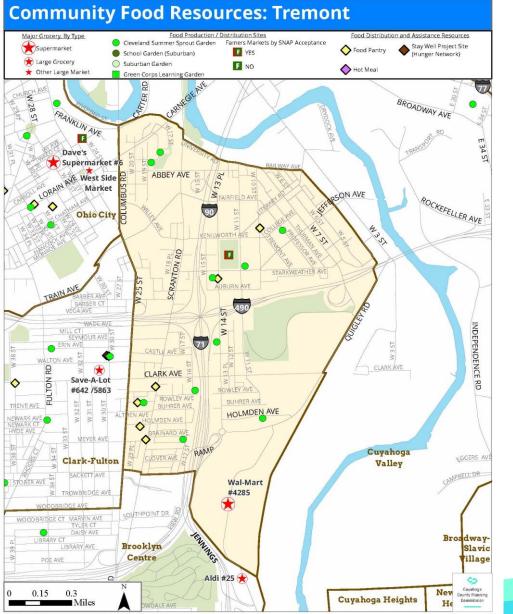
Project Components

Part 1: Community Food Assessment:

- Inventory of Assets:
- Demographic Analysis by City and Cleveland neighborhood

<u>Yart 2: Supermarket Resource Analysis</u>

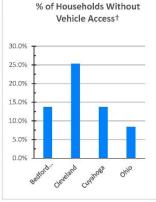
Current Conditions



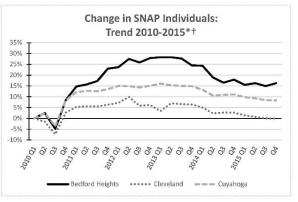
RATIO OF INCOME TO POVERTY LEVEL [†]	Bedford	Cleveland	Cumphone	Ohio
Population for whom poverty status is	Heights	Cleveland	Cuyahoga	Onio
determined:	10,513	381,531	1,241,330	11,243,508
Population Below Poverty Level	1,477	136,860	230,111	1,790,564
Percent	14.0%	35.9%	18.5%	15.9%
Population Below 200% of Poverty Level	3,760	233,518	461,140	3,859,814
Percent	35.8%	61.2%	37.1%	34.3%

VEHICLE ACCESS ⁺	Bedford Heights	Cleveland	Cuyahoga	Ohio		
Households w/o Vehicles	669	42,169	73,370	384,271		
Percent	13.7%	25.3%	13.7%	8.4%		
Total Vehicles Available	6,744	191,124	793,926	8,105,659		
Vehicles Per Person	0.63	0.49	0.63	0.70		

SNAP STATISTICS, 2015 4th Quarter*†	Bedford Heights	Cleveland	Cuyahoga		
Total assistance groups, number	1,397	81,724	140,368		
Child-only assistance groups, number	15	931	1,996		
Total individuals, number	2,342	152,476	261,717		
% Total individuals	22.0%	42.2%	21.2%		
Individuals aged <5, number	291	18,874	30,646		
Individuals aged 5-17, number	518	40,152	69,533		
Individuals aged 18-64, number	1,298	82,545	141,140		
Individuals aged 65+, number	235	10,905	20,398		



SNAP INDIVIDUALS, TREND 2010-2015*†	Bedford Heights	%
2010 Q1	2,014	18.9%
2010 Q4	2,184	20.4%
2011 Q1	2,311	21.6%
2011 Q4	2,477	23.2%
2012 Q1	2,491	23.3%
2012 Q4	2,575	24.1%
2013 Q1	2,584	24.2%
2013 Q4	2,507	23.5%
2014 Q1	2,505	23.5%
2014 Q4	2,375	22.2%
2015 Q1	2,326	21.8%
2015 Q4	2,342	21.9%



*SNAP Data from NEOCANDO, Center on Urban Poverty and Community Development. All other data from the U.S. Census Bureau, American Community Survey, 2010-2014

*SNAP (Supplemental Nutrition Assistance Program), formerly known as the food stamp program, is a federal program run by the U.S. Department of Agriculture that offers nutrition assistance to eligible low-income individuals and families.

CUYAHOGA COUNTY BOARD OF HEALTH YOUR TRUSTED SOURCE FOR PUBLIC MEALTH INFORMATION





2016 CHC Community Food Assessment: Cuyahoga County

USDA Food Access Research Atlas

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 - Nationwide Scope
 - Reported at Census Tract Level
 - Larger inventory of stores: 300 vs. 177
 - No individual store locations provided
 - Not responsive to changes in the local landscape

Supermarket Activity, 2018-2019

New/Moved Stores:

- Constantino's Market (18120 Sloane in Lakewood): New store
- Lucky's Market (11620 Clifton in Cleveland (Edgewater)): New store
- **Simons Supermarket** (11501 Buckeye in Cleveland (Buckeye-Shaker)): New store October 2018
- **Mazzulo's Fresh Market** (East Side Market, 10505 St. Clair in Cleveland (Glenville)): New store February 2019
- Dave's Supermarket (1929 East 61st in Cleveland (Hough): Moved from 3301 Payne February 2019
- Fresh Thyme (30016 Detroit in Westlake): New store
- Whole Foods Market (50 Wall Street (Pinecrest) in Orange): Moved from Woodmere

Closed Stores:

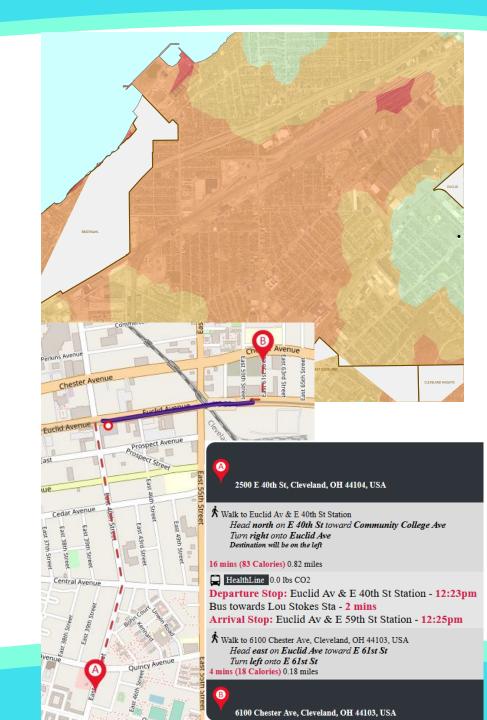
- ALDI (6711 Broadway in Cleveland (Broadway-Slavic Village))
- Madison Bi-Rite (12503 Madison in Lakewood)
- Dave's Supermarket (3301 Payne in Cleveland (Goodrich-Kirtland Park))
- **Dave's Supermarket** (2500 East 40th Street in Cleveland (Central))





Definitions

- Food Deserts are ... areas with <u>limited access</u> to supermarkets
- Limitations:
 - **Distance:** More than ½ mile from nearest supermarket
 - Income/mobility: More than 30% of the population has income below 200% of the poverty level (<\$50,000 / family of four)



Methods

Analysis Tasks:

- Develop supermarket inventory
- Generate drive-time distances of 0.5, 1.0, 2.0+ miles
- Identify Low Income Areas: where >30% of the population is at less than 200% of poverty level
- Compile socio-economic data for census blocks
- Create neighborhood profiles
- Create interactive mapping application

Develop Store Inventory:

- **Boards of Health** licensing records
- Google (outside lacksquareCounty)

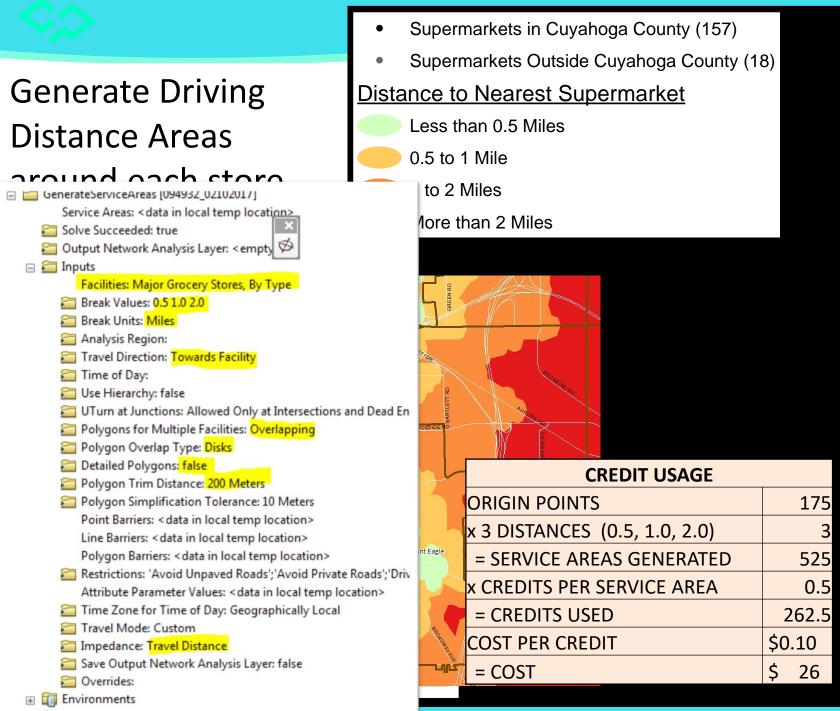
Application for a License to Conduct a: (check of	only one)	Food Service Operation Retail Food Establishment	rd Inspection Re	eport 🕥
			Check and	License number
Instructions		e any corrections if necessary.)	CIESO DIRE	
2. Sign and date the 3. Make a check or n	application. nonev order pavable	to:	1100 5000	Catego y Desorative
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*There is a mandatory penalty fee of 25% of the renewal fee for operating after the deadline (Chapter 3717 of the Ohio Revised Code).	g a food service op	eration or retail food establishment		Poisoness or Toxic Materials
ther the desoune (Chapter 3/1/ of the Onto Revised Code).			Maintamance and operation	7.0 Lebeing and identification
Before license application can be processed the application must be completed	d and the indicated f	as submitted. Failure to complete this	Deaning of equipment and stempile	2.1 Operational supplies and soplications
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			Rembing system	
City State	9	ZD	Wild be water tank and excluse (SO/RFE weber tasks	
			Sewage, other liquid waste and reinweiter	9.C. Facility layout and equipment specifications
Phone # Fas.# Check	k if applicable		Befixer, recyclables, and row nables	20 Ecisting fourlities and equipment
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Name of individual certified in food protection (if any) and their certificate number (use back for			Materials for construction and monit	15 Artifies - Cases une
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Name of parent company or owner Phone			and the second state spectrate	3701-21 OAC FSO unly
6	3			27 Sectargo of food
Address E-ma	2			
City State		20		
I hereby certify that I am the license holder, or the authorized representati	and the first const	as an analian an		
retail food establishment indicated above.	ve, of the joba servi	ce operation or		
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License file + Late file + State an	10101	= total amount das		
application approved for license and certified as required by Chapter 3717 of the Ohio	Revised Code			
By Date Audut ao.	2	License no.	R 2/SIT # Licenson	
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As per AGR 1269 (Rev. 11/07) Cuyabaga County Board of Health				
As per HEA 5319 (Rev. 1147)			opy-Oserator, Bottoin copy-Local healt	pgof

Supermarkets in Cuyahoga County (157)

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Supermarkets Outside Cuyahoga County (18)

Miles 1.5 0 3 6



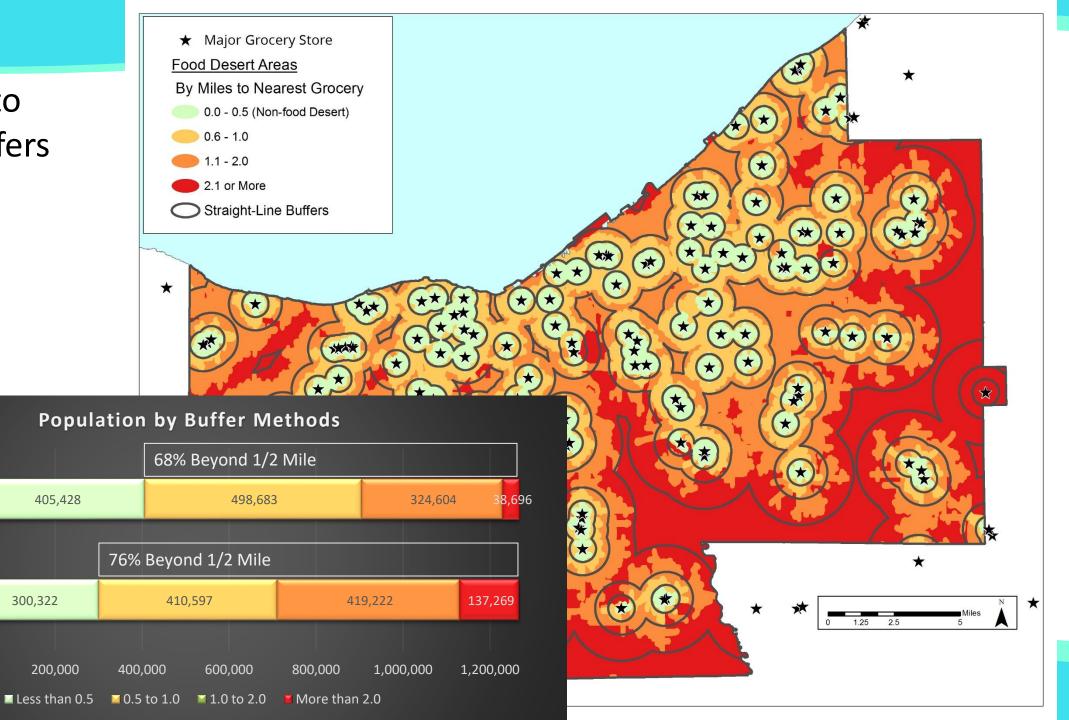
Catalog	
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Location: 🔨 GenerateServiceAreas	-
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Comparison to **Euclidian Buffers**

Straight Line Buffers

Street Network

300,322



Further Editing:

- Dissolve Tool:
 - Dissolve by Distance attribute to merge 540 areas into 3
- Identity Tool:
 - Fill in Balance of County for 2+ miles
- Editor Toolbar Clip:
 - Convert "Disks" to "Rings"
- Erase Tool:
 - Eliminate areas outside County

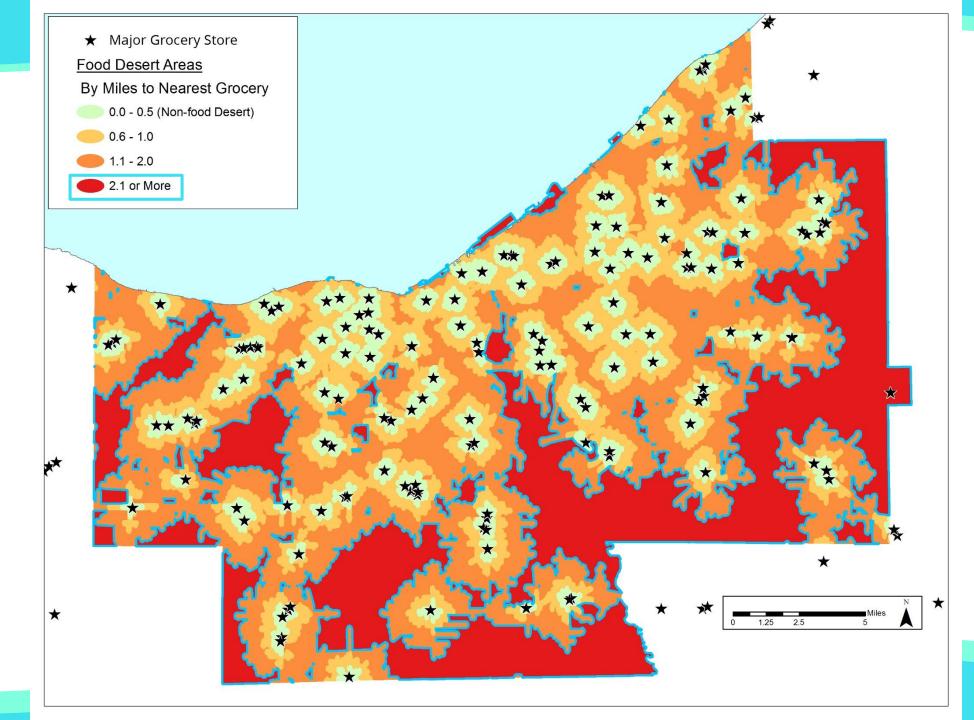
- Supermarkets in Cuyahoga County (157)
- Supermarkets Outside Cuyahoga County (18)
- Individual Service Areas (550)

🖒 County Planning

CUYAHOGA COUNTY BOARD OF HEALTH

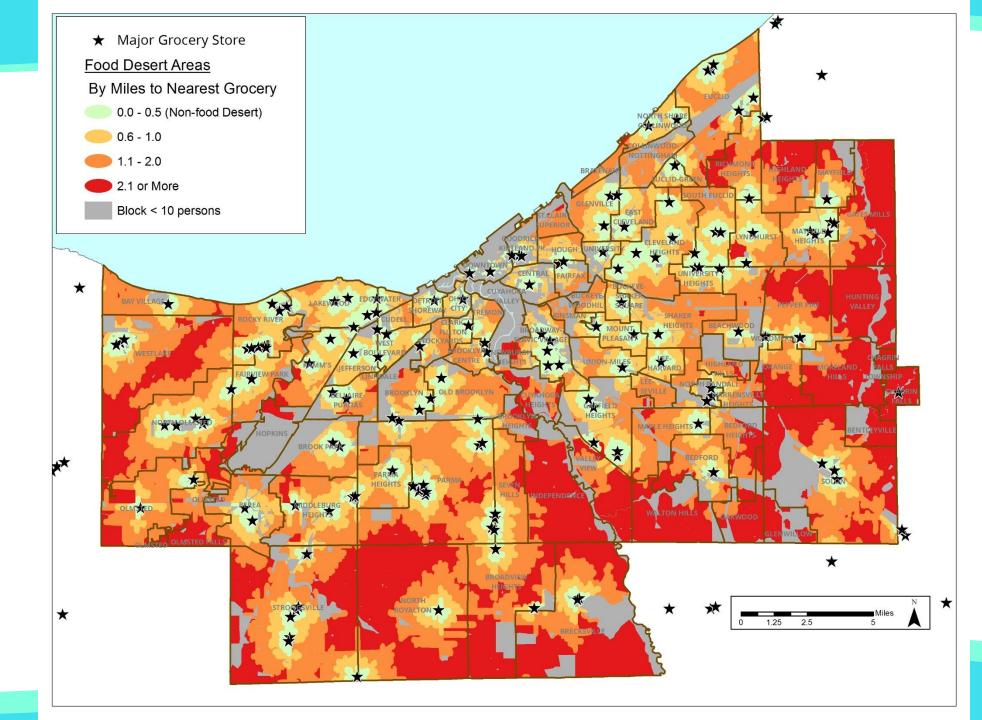


Edit Service Areas: Results



Eliminate low population areas:

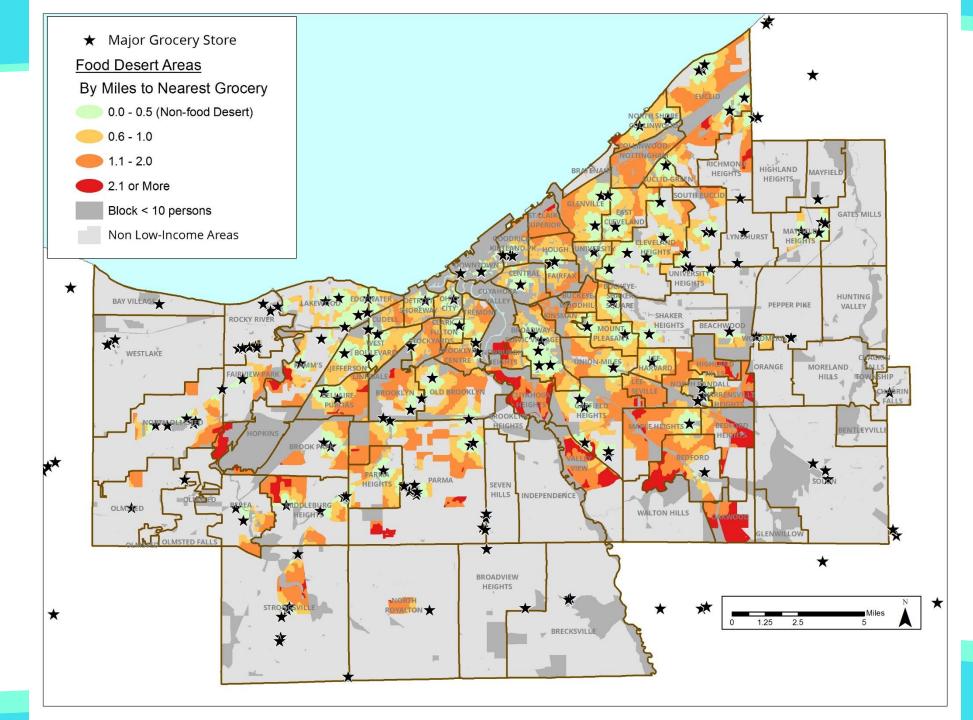
Census blocks with population < 10



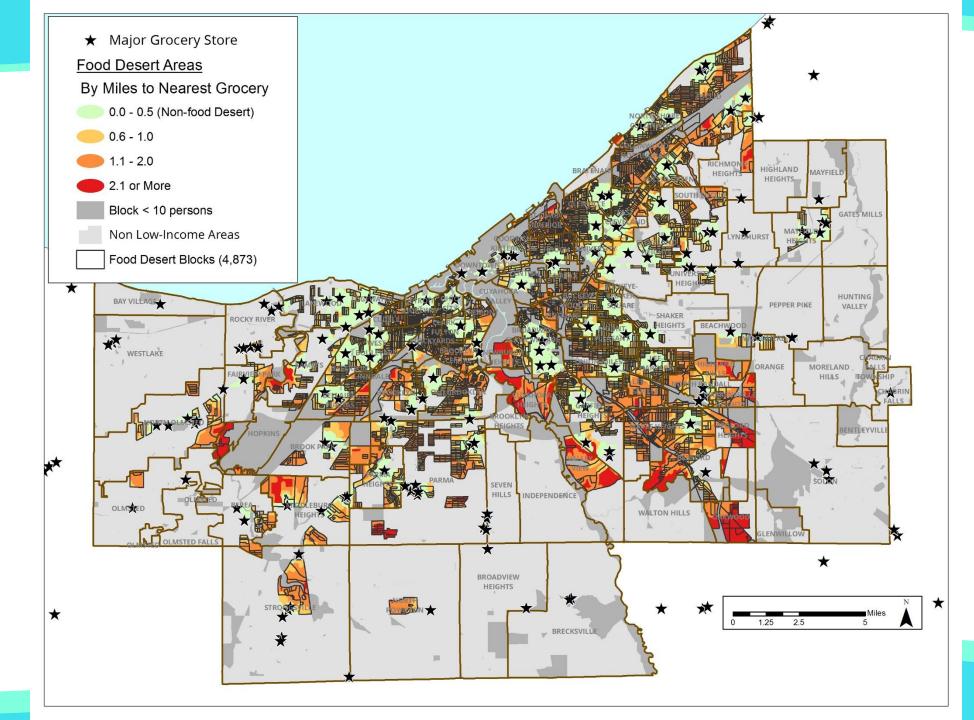
STEP 3: Apply Low-income Criteria

>30% of Populationbelow 200% ofPoverty Level

(eliminate areas NOT meeting criteria)



Overlay census blocks and apply distance values to each block.



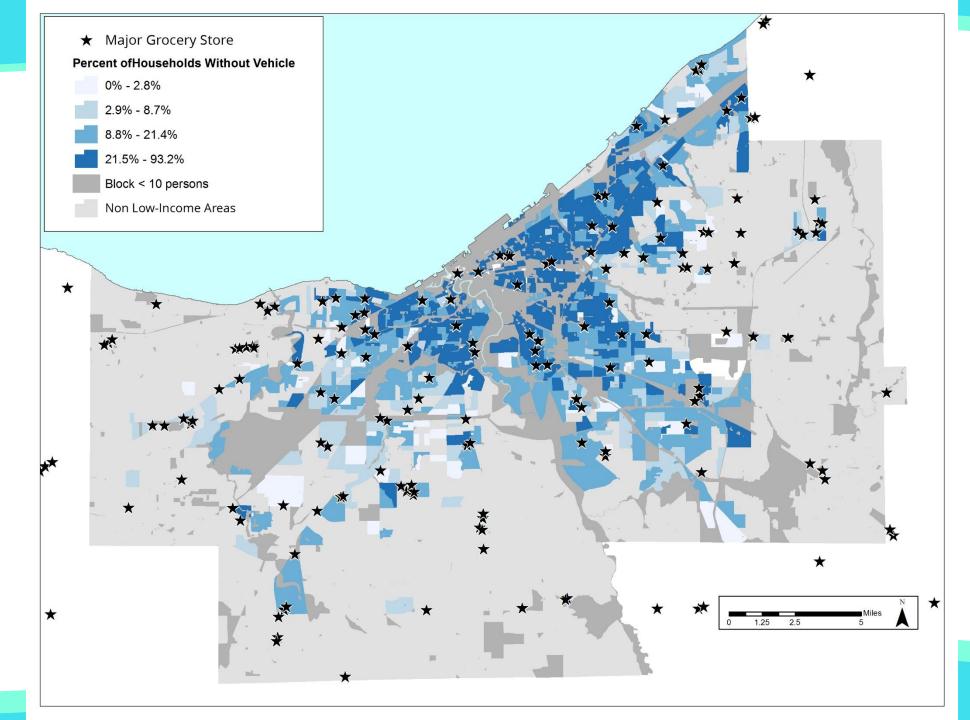
Demographics by block

	Identify	□ ×	Identify		□ ×
	Identify from: 🛛 🐼 Food Desert Blocks	•	Identify from:	Food Desert Blocks	•
	⊡ · Food Desert Blocks		- Food Desert B	locks	
	390351929001026		39035192	9001026	
					×1
	Location: 2,212,796.706 631,365.396 Fee		Location: 2,2	12,796.706 631,365.396 Feet	3
	Field	Value 🔺	Field		Value 🔺
	OBJECTID	1642	Age 21 yrs		0.829985
	Shape	Polygon	Age 22-24 yrs		5.975892
	GEOID 10	39035192	Age 25-29 yrs		7.801859
	AreaSgMi	0.7	Age 30-34 yrs		6.307886
	Suburb / SPA	Suburb	Age 35-39_yrs		7,137871
_		20025101	A 40 44		7.303868
2010 Populatio	ND		124		4.97991
2010 Populauc	201		124		10.29181
2010 Housing	Unite		50		8.465847
201011003119	onita		30		2.655952
2010 Populatio	n		124		4.481919
					0.829985
2010 Occupied	Housing Units		47		4.813913
•				6.971874	
Owner Occupi	ed Households		33.8		4.97991
	100 I II		7.0		5.145907
Renter Occupi	ed Households		7.6 Force		60.1
2010 Block Gro	un Deculation		747	byed	6.1
2010 Block Gro	pup Population		/4/	1 Income	2,756,51
Block Proportic	on of Block Group Population 2	2010	0.165997	me Less than 10000	1.1 =
		2010	0.103337	me 10K to 14999	4.4
2010 Block Gro	oup Households		302	me 15K to 19999	4
	•			me 20K to 24999	1.2
 Block Proportio 	on of Block Group Households	2010	0.155629	me 25K to 29999	1.2
				me 30K to 34999	1.6
	Age 18-24	10.6		income 40K to 44999	1.1
	Age 25-34	10.0		income 45K to 49999	0.8
	Age 35-44	14.4		ncome 50K to 59999	3.9
	Age 45-54	15.3		ncome 60K to 74999	5.3
	Age 55-64	15.6		ncome 75K to 99999	3.9
	Age 65-74	12.6		ncome 100K to 124999	3
	Age 75-84	10.1		ncome 125K to 149999	1.9
	Age 85 yrs and over	4.8		ncome 150K to 199999	1.9
	Age 5-9 yrs	4.481919		ncome 200K or more	2.2
	Age 10-14_yrs	5,477901	Total Workers		51.5
	Age 15-17 yrs	3.485937	EstBLK_Workers		51
	Age 18-19 yrs	2.157961	EstBLK_Car_truck		50.1
	Age 20 vrs	1.65997 👻	EstBLK PctComm		0.004315 *
	· · · · · · · · · · · · · · · · · · ·	•	•	III	E E
	Identified 1 feature		Identified 1 featur	re	

•	•	
PctHHwoVehicle	0.090226	-
Food Desert Focus Area	<null></null>	
Vehicles per Person	0.112053	
Eblk_TotMinority2	11.1218	
TransitAccess	None	
Meets Poverty Threshold (30% of Pop Below 200% Poverty)	Y	
Drive Mile Zone to Nearest Grocery	2	1
Cleveland Statistical Planning Area	<null></null>	:
City Name	Valley Vie	
Shape_Area	0.000204	
Shape_Length	0.083127	
Population Below 200% of Poverty Level	39.3	
Population Below Poverty Level	17.9	
Population at 200% and over of Poverty Level	80.01055	r
Population Between 185-199% of Poverty Level	7.137871	
Population Between 150-184% of Poverty Level	0.995982	
Population Between 125_149% of Poverty Level	6.473883	
Population between 100-124% of Poverty Level	6.805877	
Poplation Between .5099 of Poverty Level	9.129835	
Population Under .50 of Poverty Level	8.8	
Total Population for Whom Poverty Has Been Determined	119.4	
Vehicles per Person	0.112052	
Aggregate Vehicles Available	80.30456	
Total Households Without Vehicle	3.7	
EstBLK_RenterOccNoVeh	0.933774	
Owner Occupied Households Without Vehicle	2.801322	
Occupied Housholds - Total	41.4	
EstBLK_WorkedA	0.497991	
EstBLK_Commu_2	0.8	
EstBLK_Commu_1	0	
EstBLK_Commute	0	

Identified 1 feature

Thematic Maps Within Food Desert Areas



Food Desert Statistics by City & Neighborhood

Top Ten values

										Population	Pct	Population	Pct	Total	Pct of								
	6	T	Tetel	Pct of Area				Population	Percent	Below	Below	Below 200%	Below	Households	Households	Aggregate	Average	Age	Pct Age	A	DetHadas		Det Arris CT
Area	Count of Blocks	Total Population	Total Households	Population - Total	Households - Total	Minority Population	Percent Minority	African American	African American	Poverty Level	Poverty Level	of Poverty Level	200% of Poverty	Without Vehicle	Without Vehicle	Household Income	Houshold	Under 5 yrs	Under 5 yrs	Age Under 18	Pct Under Age 18	Age 65 and over	Pct Age 65 and Over
Beachwood	4	484	82			395	81.6%	396	81.8%	-	0.0%	131	27.0%	-	0.0%	5,044,010	61,140	34		83	17.2%	238	
Bedford	109	9,993	4,645	76.7%		6,003	60.1%	5,683	56.9%	1,592	15.9%	3,691	36.9%	594	12.8%	217,572,811	46,836	733	7.3%	2,260	22.6%	1,508	15.1%
Bedford Heights	31	5,640	2,826	52.8%		4,643	82.3%	4,379	77.6%	994	17.6%	2,807	49.8%	613	21.7%	102,358,424		301	5.3%	1,238	22.0%	720	
Berea	33 46	4,100	1,602	21.5%	21.5%	475	11.6%	355	8.7%	502	12.2%	1,094	26.7%	231	14.4%	92,972,534		196	4.8%	622	15.2%	713	
Brook Park Brooklyn	40	6,281 7,192	2,629 3,201	33.0%	34.2%	1,338	21.3% 22.7%	419 381	6.7% 5.3%	801 1,211	12.8%	2,315 3,014	36.9% 41.9%	202 254	7.9%	135,290,927	51,451 47,350	326 393	5.2%	1,401	22.3% 21.3%	1,109	17.7%
Cleve: Bellaire-Puritas	98	9,761	3,994	68.2%	68.2%	5,360	54.9%	3,458	35.4%	3,043	31.2%	5,759	59.0%	539	13.5%	152,231,554		880	9.0%	2,417	24.8%	1,009	
Cleve: Broadway-Slavic Village	165	8,593	3,333	40.3%	39.7%	5,216	60.7%	4,820	56.1%	3,403	39.6%	5,886	68.5%	829	24.9%	128,256,080	38,484	569	6.6%	2,506	29.2%	675	7.9%
Cleve: Brooklyn Centre	107	9,102	3,284	98.5%	98.3%	5,015	55.1%	2,336	25.7%	3,664	40.2%	6,022	66.2%	895	27.3%	117,554,545			6.1%	2,528	27.8%	738	
Cleve: Buckeye-Shaker Square Cleve: Buckeye-Woodhill	58 89	5,872 6,929	3,029	49.5%	48.2%	5,343 6,724	91.0%	4,903	83.5% 94.7%	2,039	34.7% 53.7%	3,509 5,485	59.8% 79.2%	951 1.171	31.4%	101,849,348 62,186,798		349	5.9%	1,148 2,270	19.6% 32.8%	985 719	16.8%
Cleve: Central	59	4,726	2,019	43.0%	46.4%	4,450	94.2%	4,324	91.5%	3,019	63.9%	3,892	82.4%	1,257	62.3%	38,542,810			13.3%	1,646	34.8%	442	
Cleve: Clark-Fulton	106	4,193	1,625	56.6%	57.9%	2,936	70.0%	966	23.0%	2,068	49.3%	2,896	69.1%	439	27.0%	48,194,376	29,662	320	7.6%	1,054	25.1%	379	
Cleve: Collinwood-Nottingham	167	11,313	4,657	99.9%	99.8%	10,001	88.4%	9,800	86.6%	4,577	40.5%	7,926	70.1%	1,188	25.5%	140,603,487	30,191	644	5.7%	2,733	24.2%	1,683	14.9%
Cleve: Cudell	68	8,149 491	3,338	91.3%	92.1%	5,268	64.6% 61.4%	3,310 285	40.6%	3,760	46.1%	5,947	73.0%	1,069	32.0%	100,067,819	29,977	525 46	6.4%	2,359	28.9%	597	7.3%
Cleve: Cuyahoga Valley Cleve: Detroit-Shoreway	106	5,495	277	37.0%	48.5%	301 2,914	53.0%	1.797	58.0% 32.7%	2,329	42.4%	322 3.582	65.2%	810	34.2% 38.2%	13,813,826 70,759,780	49,780	322	9.4%	1.143	24.9% 20.8%	31 623	11.3%
Cleve: Downtown	7	708	275	6.9%	5.6%	372	52.6%	238	33.6%	295	41.7%	499	70.5%	123	44.6%	9,119,560		35	4.9%	54	7.6%	19	2.7%
Cleve: Edgewater	18	2,252	1,327	36.2%	39.4%	725	32.2%	613	27.2%	286	12.7%	969	43.1%	267	20.1%	79,433,016	59,868	106	4.7%	293	13.0%	187	8.3%
Cleve: Euclid-Green	33	3,442	1,606	65.3% 75.7%	61.9%	3,225	93.7%	3,220	93.5%	602 1 786	17.5%	1,584	46.0%	355	22.1%	65,283,956			4.9%	756	22.0% 26.8%	522	15.2%
Cleve: Fairfax Cleve: Glenville	68 197	4,681	1,962	75.7%	73.4%	4,533	96.8%	4,491	95.9% 96.0%	1,786	38.1% 42.0%	2,976	63.6% 70.4%	1.885	36.5%	54,868,908 193,099,713	27,971 30,544	414	8.9%	1,256	26.8%	823 2,422	17.6%
Cleve: Goodrich-Kirtland	27	2,619	1,169	61.9%	57.5%	1,462	55.8%	825	31.5%	863	32.9%	1,392	53.1%	371	31.8%	66,221,608	56,633	1,129	6.3%	4,028	15.6%	315	14.7%
Cleve: Hopkins	1	2	2	1.2%	3.3%		0.0%	1	48.4%	1	70.2%	2	83.8%	1	25.7%	56,558	27,085	0	19.5%	1	38.0%	0	6.2%
Cleve: Hough	147	10,119	4,134	86.1%		9,750	96.4%	9,500	93.9%	4,813	47.6%	6,737	66.6%	1,958	47.4%	112,622,432		807	8.0%	2,517	24.9%	1,547	15.3%
Cleve: Jefferson	72	6,598	2,846	40.9%	41.9%	2,860	43.3%	1,655	25.1%	1,331	20.2%	3,153	47.8%	383	13.5%	133,086,869		504	7.6%	1,482	22.5%	799	12.1%
Cleve: Kamm's Cleve: Kinsman	65 77	9,004 5,135	3,840	34.6%	33.0%	3,001 4,992	33.3% 97.2%	1,714	19.0%	2,800	31.1% 54.8%	4,772	53.0% 75.2%	634 987	16.5% 44.9%	180,396,762 47,889,166		635 796	7.1%	1,950	21.7% 32.7%	1,182 583	13.1% 11.4%
Cleve: Lee-Harvard	94	6.624	2,712	64.1%	62.8%	6,460	97.5%	6,416	96.9%	1,727	26,1%	3,520	53.1%	311	11.5%	109.006.151		339	5.1%	1,343	20.3%	1,650	
Cleve: Lee-Seville	51	4,588	1,997	98.9%	98.6%	4,552	99.2%	4,529	98.7%	1,462	31.9%	2,799	61.0%	401	20.1%	69,551,182	34,826	189	4.1%	1,033	22.5%	880	19.2%
Cleve: Mount Pleasant	98	8,713	3,874	56.1%		8,651	99.3%	8,600	98.7%	2,850	32.7%	5,598	64.2%	1,017	26.3%	116,610,744			5.7%	2,075	23.8%	1,279	14.7%
Cleve: North Shore Collinwood Cleve: Ohio City	116	9,241 4,991	4,277 2,326	57.6% 57.1%	56.2%	6,937 2.656	75.1% 53.2%	6,694 2,066	72.4%	3,006	32.5% 43.8%	5,314 3,190	57.5% 63.9%	904 693	21.1% 29.8%	175,887,711 110,232,650		652 406	7.1%	2,182	23.6% 24.0%	978 351	10.6%
Cleve: Old Brooklyn	188	21,429	9,194	63.1%		6.033	28.2%	2,000	11.1%	5.345	24.9%	10.548	49.2%	1,321	14.4%	395.841.674	43.057	1,512	7,1%	5,104	23.8%	2.574	12.0%
Cleve: St. Clair-Superior	100	6,115	2,592	100.0%	100.0%	5,340	87.3%	4,990	81.6%	2,976	48.7%	4,687	76.6%	811	31.3%	69,830,631	26,941	432	7.1%	1,569	25.7%	594	9.7%
Cleve: Stockyards	150	9,039	3,335	97.9%	97.9%	4,904	54.3%	2,315	25.6%	3,973	44.0%	7,115	78.7%	888	26.6%	94,660,483	28,385	800	8.9%	2,352	26.0%	913	
Cleve: Tremont	92	5,468	2,559	69.5%	67.4%	2,189	40.0%	1,222	22.4%	2,009	36.7% 37.1%	3,257	59.6%	562	22.0%	128,936,886	50,394	302	5.5%	1,152	21.1%	338	6.2%
Cleve: Union-Miles Cleve: University	191	14,658 3,294	5,452	75.4%	73.9%	14,144	96.5% 55.1%	14,046	95.8% 39.9%	5,440	37.1%	10,428	71.1%	1,146 720	21.0% 43.3%	160,001,985 57,586,279	29,349 34,657	1,023	7.0%	4,033	27.5% 9.4%	2,383	16.3%
Cleve: West Boulevard	121	10,845	3,909	57.4%		6,760	62.3%	3,400	31.4%	3,505	32.3%	7,283	67.2%	636	16.3%	151,171,323		880	8.1%	3,046	28.1%	876	
Cleveland Heights	127	13,085	5,316	28.7%	27.2%	7,311	55.9%	6,588	50.3%	2,848	21.8%	5,465	41.8%	759	14.3%	327,299,438	61,568	1,031	7.9%	3,329	25.4%	1,725	13.2%
Cuyahoga Heights	9	577	229	100.0%	100.0%	45	7.8%	20	3.5%	78	13.5%	176	30.5%	22	9.6%	14,126,702	61,689	27	4.7%	152	26.3%	95	16.5%
East Cleveland Euclid	109 240	10,044	4,869	57.0% 57.5%	61.0% 56.0%	9,274	92.3% 61.5%	8,921	88.8% 59.8%	4,209	41.9%	7,121	70.9%	1,959	40.2%	133,537,539	27,425	744	7.4%	2,130	21.2% 23.5%	2,072	20.6%
Fairview Park	17	1,988	999	12.0%	13.3%	174	8.8%	57	2.8%	436	21.9%	710	35.7%	88	8.8%	59,534,931	59,620	141	7.1%	390	19.6%	393	19.8%
Garfield Heights	116	13,018	4,893	45.7%	42.8%	7,235	55.6%	6,844	52.6%	2,664	20.5%	6,046	46.4%	632	12.9%	229,016,538	46,809	796	6.1%	3,576	27.5%	2,298	17.7%
Highland Hills	10	951	235	100.0%	100.0%	747	78.5%	714	75.1%	196	20.6%	334	35.2%	56	23.8%	8,721,298		22	2.3%	148	15.5%	209	21.9%
Lakewood Linndale	75	11,722	6,062	22.8% 97.6%	24.7%	1,850 104	15.8% 66.9%	1,183	10.1% 52.9%	1,512	12.9% 14.4%	4,319	36.8% 68.8%	830 12	13.7% 19.2%	324,238,366 2,666,447	53,485 43,114	658 16	5.6%	1,925 40	16.4% 25.5%	1,462 28	12.5% 18.0%
Maple Heights	173	15,133	6,410	97.0%	66.1%	11.581	76.5%	11,337	52.9%	3,138	20.7%	7,149	47.2%	732	19.2%	281,260,365	43,114	694	4.6%	3,545	23.4%	2.023	13.4%
Mayfield Heights	10	997	446	5.3%	4.8%	207	20.8%	83	8.3%	144	14.4%	403	40.4%	33	7.3%	23,060,935	51,662	58	5.8%	190	19.1%	212	21.2%
Middleburg Heights	17	4,784	2,041	30.2%		1,908	39.9%	226	4.7%	522	10.9%	1,498	31.3%	163	8.0%	125,090,289	61,276	381	8.0%	969	20.3%	924	19.3%
Newburgh Heights North Olmsted	22 27	1,804 4,874	796 1.934	90.2%	90.1%	447 530	24.8% 10.9%	345 287	19.1% 5.9%	504 662	27.9% 13.6%	881 1.710	48.8% 35.1%	65 110	8.2% 5.7%	34,636,159 115,898,900		104 254	5.7% 5.2%	451 974	25.0% 20.0%	221 911	12.2%
North Olmsted North Randall	2/	4,874	1,934	15.1%	14.4%	530	10.9%	287	5.9%	173	21.5%	1,/10 361	35.1%	110	27.3%	115,898,900	32 775	254	2.6%	9/4	20.0%	911 238	18.7%
North Royalton	9	2,299	1,342	7.6%	10.7%	422	18.4%	193	8.4%	376	16.4%	698	30.4%	64	4.8%	76,116,529	56,719	156	6.8%	325	14.1%	388	16.9%
Oakwood	22	1,524	602	40.7%	41.6%	991	65.0%	908	59.6%	332	21.8%	535	35.1%	42	7.0%	30,356,820		112	7.3%	289	19.0%	301	19.8%
Olmsted	5	1,680	734	12.5%		85	5.0%	85	5.1%	225	13.4%	580	34.5%	54	7.4%	39,986,282		153	9.1%	274	16.3%	301	
Parma Parma Haiahte	250 56	29,217	12,328	36.2%	36.9%	4,524	15.5% 14.6%	1,757	6.0% 4.8%	4,472	15.3% 18.3%	11,552 4,433	39.5% 45.9%	914 450	7.4%	618,524,043 204,505,576	50,171 48.803	1,884	6.4%	6,302 2,233	21.6% 23.1%	4,618	15.8%
Parma Heights Richmond Heights	19	2,490	4,190	47.2%		1,408	61.2%	1,269	4.8%	257	10.3%	4,433	43.5%	260	20.7%	204,000,070 54,088,480		000		2,233	23.1%	1,5/4	
Shaker Heights	34	3,405	1,558	12.1%	13.6%	2,489	73.1%	2,010	59.0%	692	20.3%	1,493	43.8%	242	15.5%	76,770,722		156	4.6%	742	21.8%	654	19.2%
South Euclid	47	4,421	1,759	20.0%	19.7%	1,945	44.0%	1,691	38.2%	707	16.0%	1,687	38.2%	109	6.2%	110,904,658	63,051	298	6.7%	984	22.2%	690	
Strongsville	12	4,162	1,956	9.3%	11.2%	897	21.6%	207	5.0%	938	22.5%	2,258	54.3%	221	11.3%	103,351,899		308	7.4%	833	20.0%	627	15.1%
University Heights Valley View	23	2,482	968 266	18.5%	20.7%	1,066	42.9% 9.2%	1,038	41.8% 6.5%	633 108	25.5%	1,066	42.9%	95 24	9.8%	67,606,665	69,871 66,587	156	6.3% 7.0%	752	30.3%	335 166	13.5% 23.1%
Warrensville Heights	80	11,267	5,178	83.9%		10,767	95.6%	10,558	93.7%	2,292	20.3%	5,705	50.6%	668	12.9%	208,768,447	40,320	712	6.3%	2,600	23.1%	1,888	16.8%
Woodmere	5	380	127	37.9%		328	86.2%	291	76.6%	67	17.7%	139	36.5%	11	8.4%	6,632,166	52,157	27	7.2%	116	30.6%	36	9.6%
Grand Total	4,874	455,825	194,473	36.0%	36.4%	271,247	59.5%	229,683	50.4%	130,933	28.7%	247,265	54.2%	38,499	19.8%	8,123,385,003	41,771	30,635	6.7%	107,913	23.7%	64,002	14.0%

Food Desert Population

Countywide, nearly 443,000 people live in food deserts – about 35% of all residents.



In the City of Cleveland, over 230,000 people live in food deserts – about 59% of its residents.



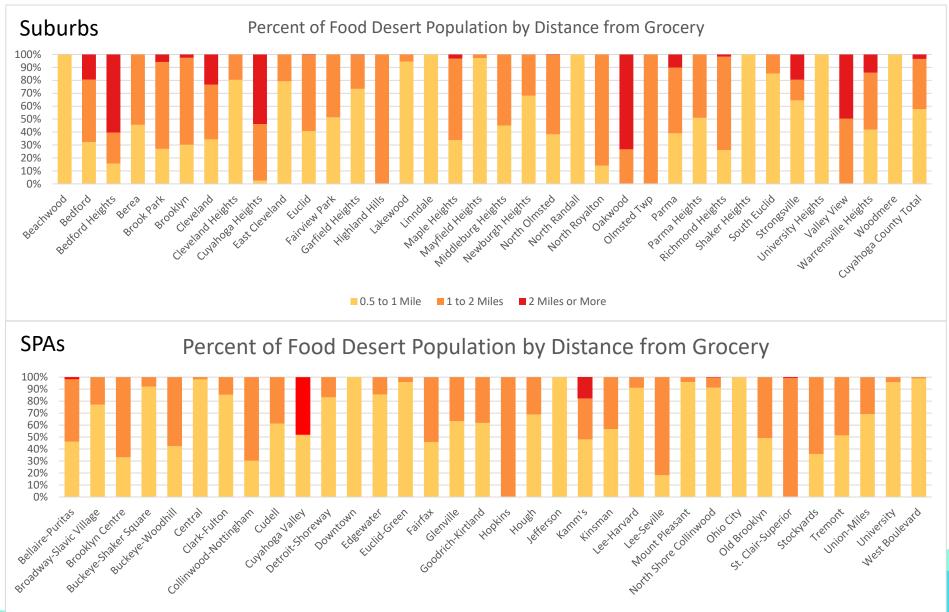
 Over 165,000 residents live more than 1 mile from a grocery store

• Nearly 16,000 live more than 2 miles away.

2018 DISTANCE FROM SUPERMARKET: Food Desert Populations, Countywide



Population by Distance from Grocery



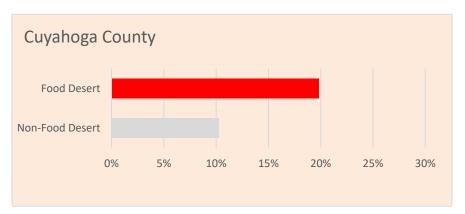
■ 0.5 to 1 Mile ■ 1 to 2 Miles ■ 2 Miles or More

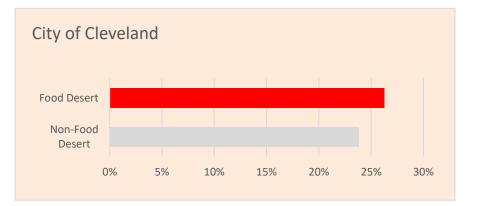
Access to Vehicles

Cuyahoga County: 20% of food desert households have no vehicle Vs. 10% in non-food desert areas

City of Cleveland: 26% of food desert households have no vehicle Vs.

24% in non-food desert areas





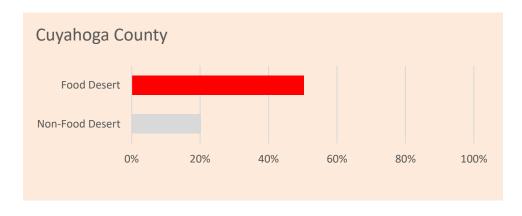
Race

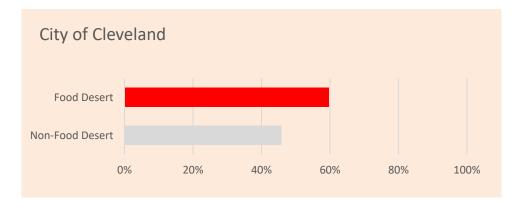
Cuyahoga County: over 220,000 persons living in food deserts are African-American – about 50% of the food desert population.

Vs. 20% African-American in nonfood desert areas.

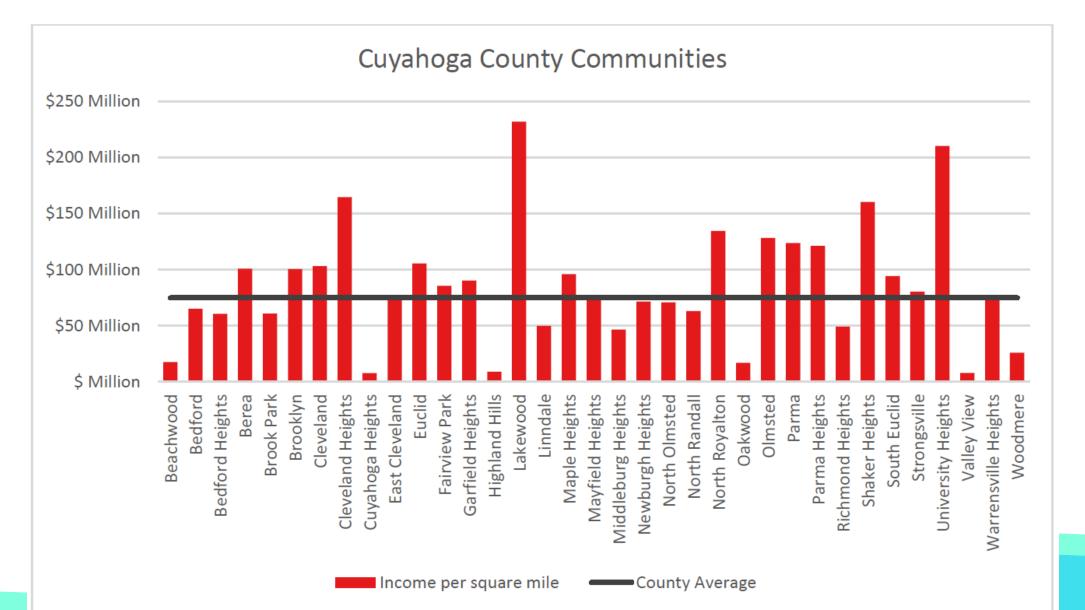
City of Cleveland: about 135,500 persons living in food deserts are African-American – nearly 60% of the food desert population.

vs. 46% African American in nonfood desert areas.





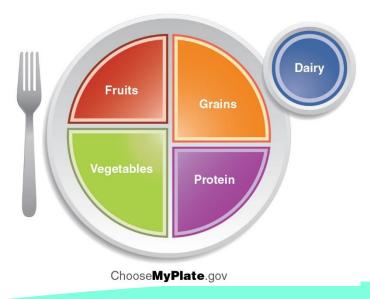
INCOME DENSITY IN FOOD DESERTS, Communities & Cleveland Neighborhoods



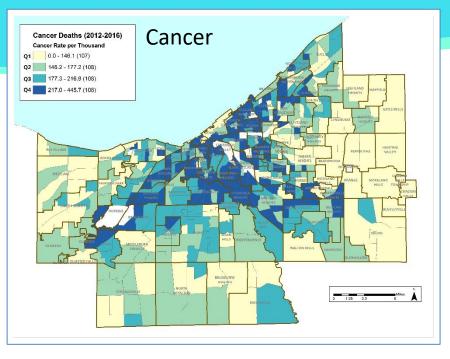
Health Outcomes

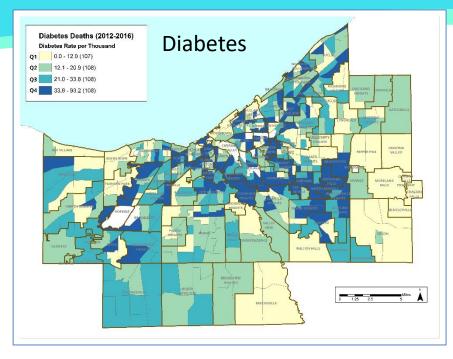
Diet-Related Disease Death Rates:

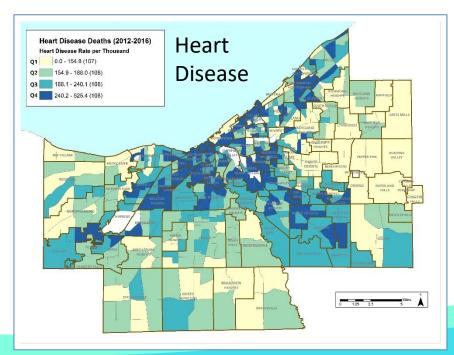
- "PRELIMINARY" data provided by the Ohio Department of Health
- Age-adjusted death rates (2011-2016), by Census Tract
- Deaths due to:
 - Heart Disease
 - Stroke
 - Cancer
 - Diabetes

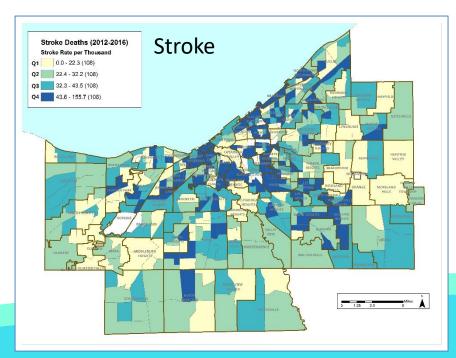


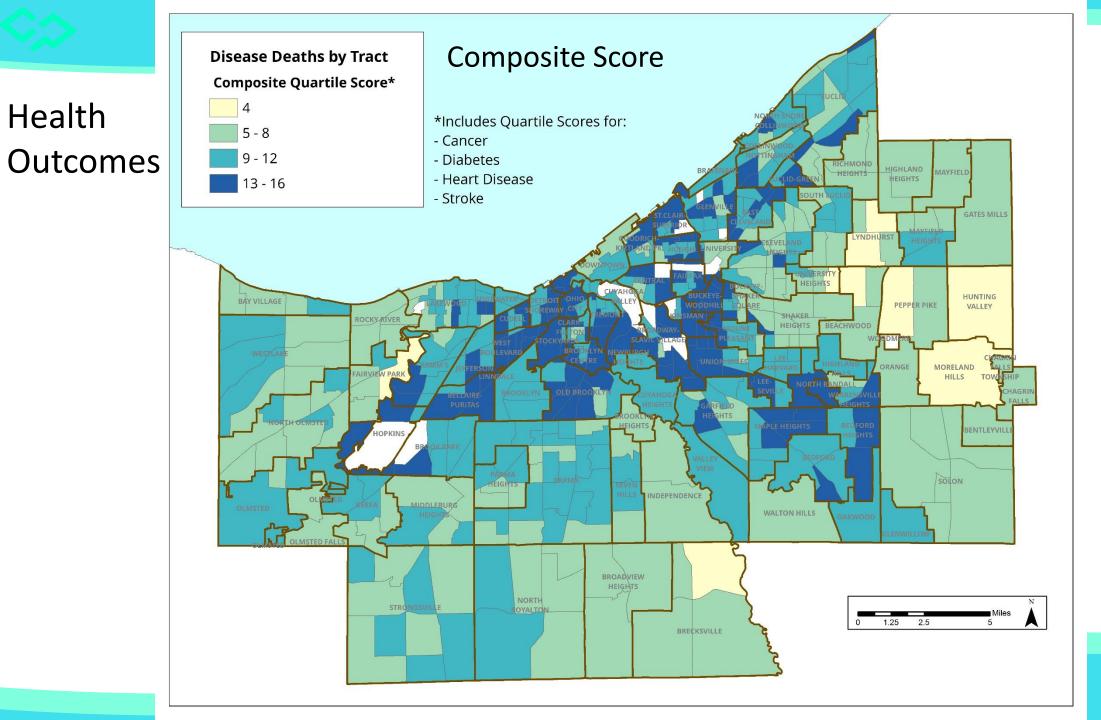
Health Outcomes

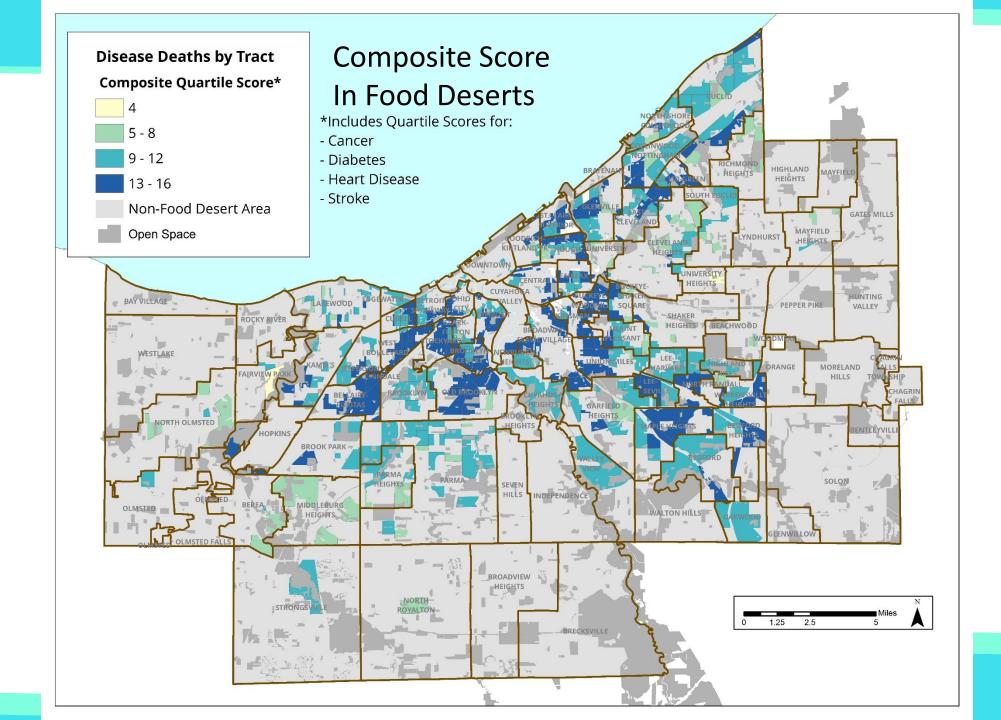












Health Outcomes

Cuyahoga County: 83% (380,432) of food desert population had death rates in the upper half of composite scores (9-16)

Vs.

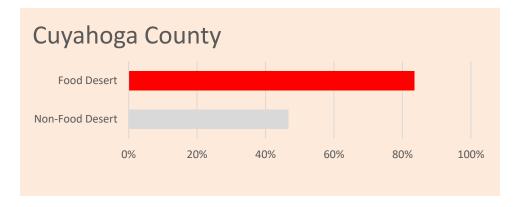
only 47% (378,517) in non-food desert areas of the County.

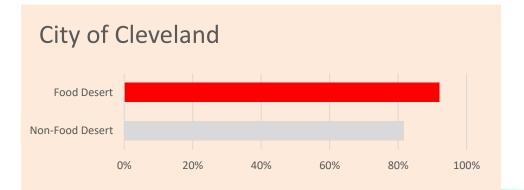
City of Cleveland: 92% (221,548)

in food deserts had disease death rates in the upper half of composite scores

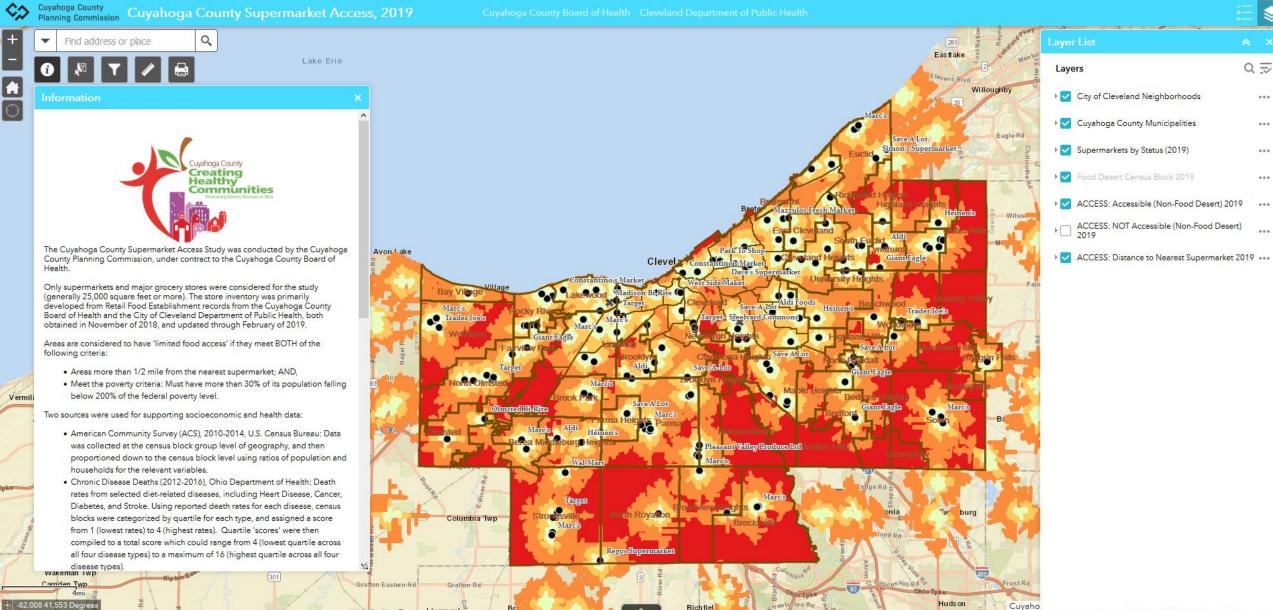
Vs.

only 82% (151,437) in non-food desert areas of the City.



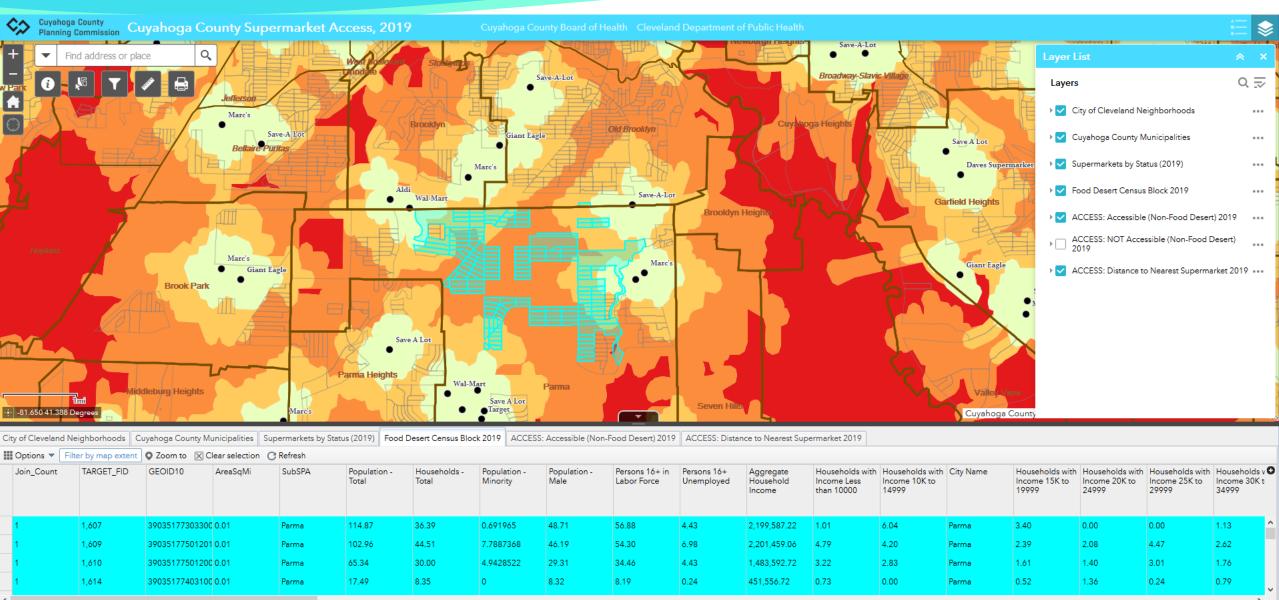


Web Map



Liverpoo

Web Map



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1486 features 153 selected

Final Report and Interactive Map



Cuyahoga County Planning Commission

CREATING HEALTHY COMMUNITIES



countyplanning.us/projects/creating-healthy-communities/



ccbh.net/cuyahoga-county-supermarket-assessment/



FOR OUR COMMUNITY FOR OUR REGION FOR OUR FUTURE

CUYAHOGA COUNTY BOARD OF HEALTH



Cuyahoga County Supermarket Assessment

2018 Inventory Update

Prepared by:

Cuyahoga County Planning Commission 2079 East 9th Street, Suite 5-300 Cleveland, Ohio 44115

Prepared for:

Cuyahoga County Board of Health 5550 Venture Drive Parma, Ohio 44130

Final Report Issued:

March 8, 2019



Thank you!

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CUYAHOGA COUNTY BOARD OF HEALTH YOUR TRUSTED SOURCE FOR PUBLIC HEALTH INFORMATION