

Zoning for Medical Marihuana

Table of Contents

Introduction

Michigan
Legislation

Grand Rapids
Suitable Land

Facility Buffers
600/1,000 ft.

Planning Commission
Recommendation
Provisioning Centers

Planning Commission
Recommendation
Other Facilities

Residential
Buffer

Sensitive Uses

Schools

Child Cares

Rehab Center

Parks

Religious
Institutions

Municipal
Borders

City Models

Introduction

Ann Arbor

Denver

Los Angeles

Phoenix

Equity Mapping

Introduction

Comparison
Maps

Ann Arbor

Denver

Los Angeles

Phoenix

Other Factors

Robbery &
Assault

Violent Crime

Property
Crime

Vital Streets

Transit Lines

Medical Marihuana Facilities Licensing Act (PA 281)

This Act allows for the legal growing, processing, transporting, and distributing of medical Marihuana for those who obtain a license through the state of Michigan. Providers may obtain a license to operate one of the following commercial businesses:

- **Grower-** A Grower license authorizes the Grower to grow no more than 1500 plants in an area zoned industrial or agriculture.
- **Processor-** A Processor license authorizes the purchase of Marihuana only from a Grower and sales of Marihuana-infused products only to a Provisioning Center.
- **Secure Transporter-** A Secure Transporter license authorizes licensees to store and transport Marihuana and money associated with the purchase of Marihuana between Marihuana facilities.
- **Provisioning Center-** A Provisioning Center license authorizes the purchase or transfer of Marihuana only from a Grower or Processor. The license authorizes the sale and transfer of Marihuana to registered qualified patients or registered primary caregivers.
- **Safety Compliance Facility-** a Safety Compliance Facility license authorizes a facility to receive Marihuana from, test Marihuana for, and return Marihuana to one of the three licensed Marihuana facilities listed above.

Introduction

Michigan
Legislation

Grand Rapids
Suitable Land

Facility Buffers
600/1,000 ft.

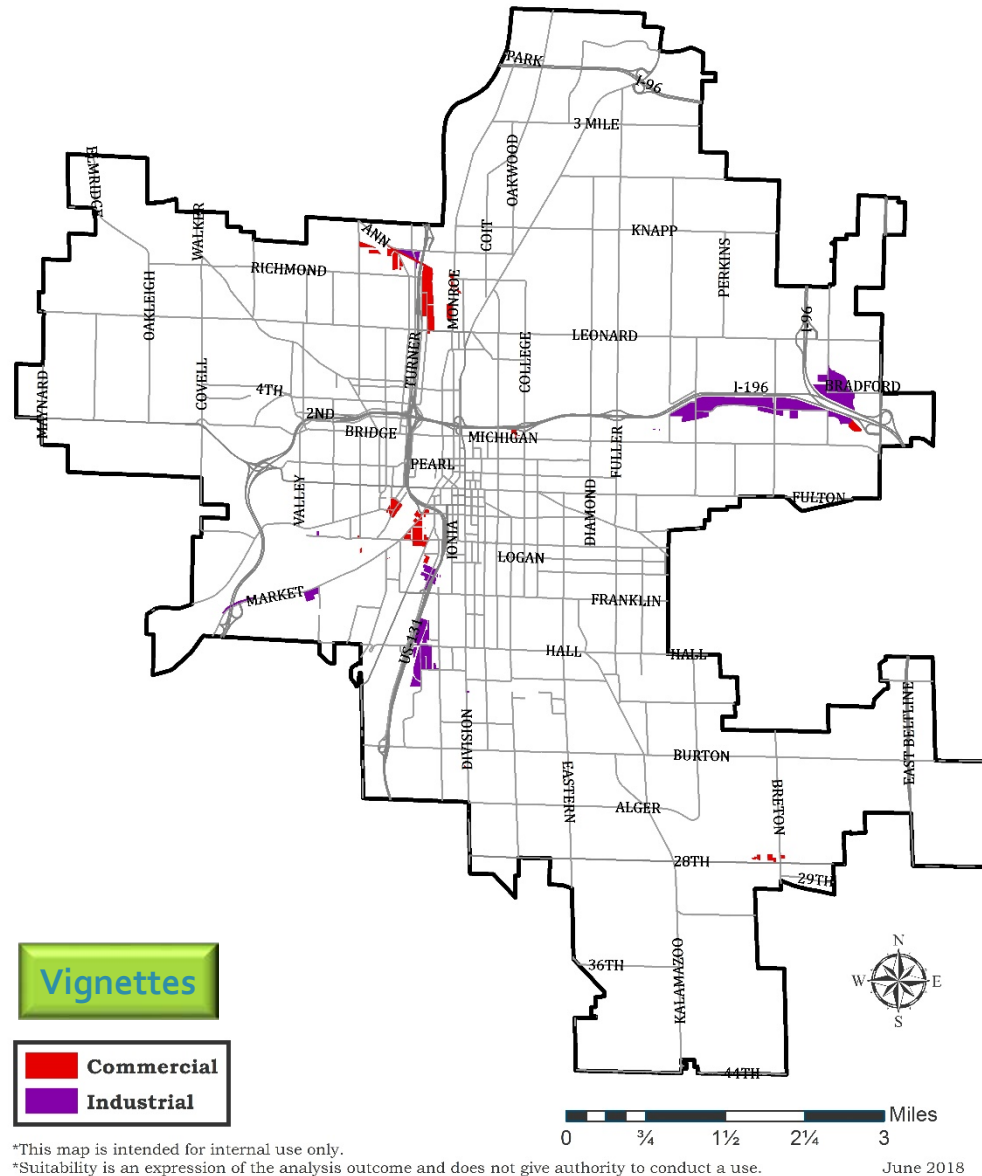
Planning Commission
Recommendation
Provisioning Centers

Planning Commission
Recommendation
Other Facilities

Residential
Buffer

Table of
Contents

Suitable Land with Proposed Zoning Ordinance Amendments



Proposed Ordinance Amendments

Buffers

- 1,000 ft. – Schools
- 1,000 ft. – Childcare Centers
- 1,000 ft. – Parks
- 1,000 ft. – Rehab Centers
- 1,000 ft. – Municipal Borders
- 250 ft. – Residential

Commercial & Industrial: 98.97 Acres of Suitable Land
Industrial: 318.41 Acres of Suitable Land

In the proposed ordinance, Medical Marihuana Provisioning Centers, Safety Compliance Facilities and Secure Transporters would be allowed in both Commercial and Industrial Zone Districts.

Growers and Processors would be allowed in the Industrial Zone District. A 600 foot buffer would be required between Medical Marihuana Facilities.

1,000 ft. buffer between facilities					600 ft. buffer between facilities				
Residential	Max				Residential	Max			
Buffer	Facilities	Ward 1	Ward 2	Ward 3	Buffer	Facilities	Ward 1	Ward 2	Ward 3
250 ft	32	18	11	3	250 ft	43	25	15	3
500 ft	24	13	7	4	500 ft	29	15	10	4
750 ft	14	11	3	0	750 ft	17	13	4	0
1000 ft	5	4	1	0	1000 ft	7	6	0	0

Introduction

Michigan
Legislation

Grand Rapids
Suitable Land

Facility Buffers
600/1,000 ft.

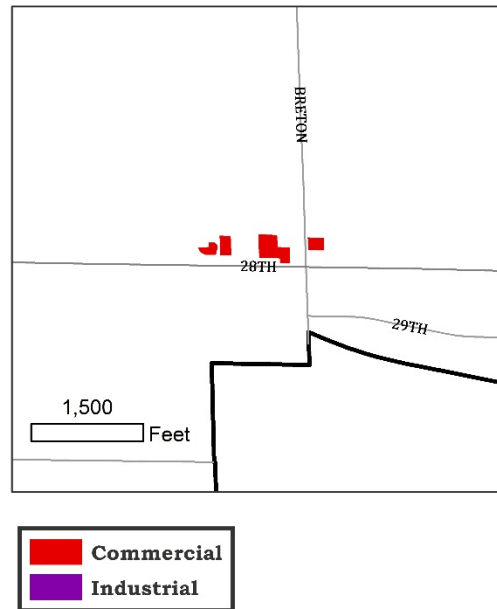
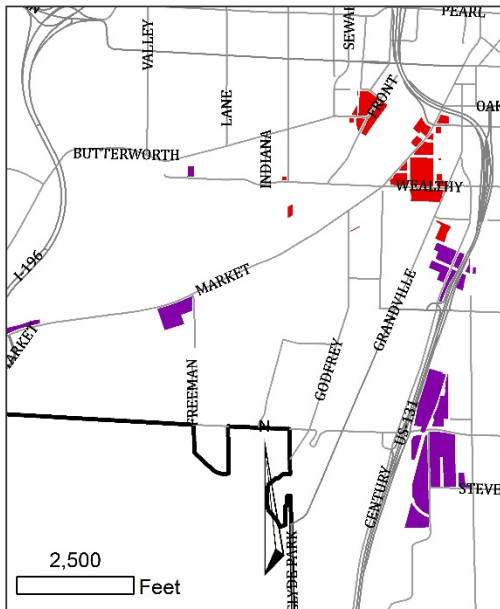
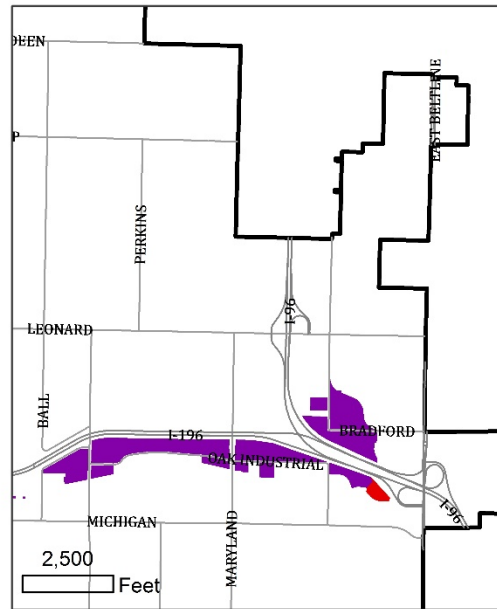
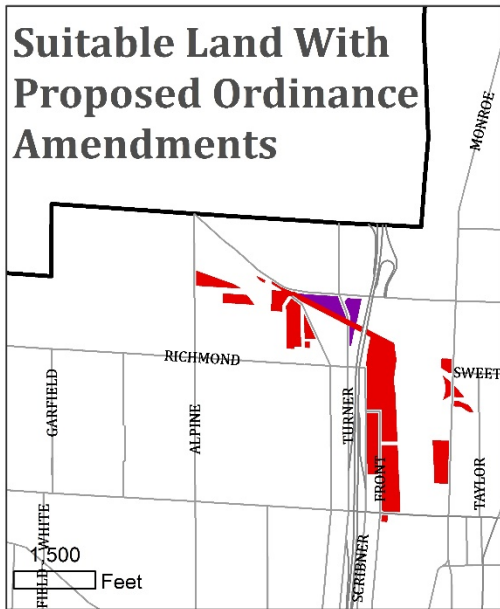
Planning Commission
Recommendation
Provisioning Centers

Planning Commission
Recommendation
Other Facilities

Residential
Buffer

Table of
Contents

Suitable Land With Proposed Ordinance Amendments



*This map is intended for internal use only.

*Suitability is an expression of the analysis outcome and does not give authority to conduct a use.

June 2018

Proposed Ordinance Amendments

Buffers

- 1,000 ft. – Schools
- 1,000 ft. – Childcare Centers
- 1,000 ft. – Parks
- 1,000 ft. – Rehab Centers
- 1,000 ft. – Municipal Borders
- 250 ft. – Residential

Commercial & Industrial: 98.97 Acres of Suitable Land
Industrial: 318.41 Acres of Suitable Land

In the proposed ordinance, Medical Marihuana Provisioning Centers, Safety Compliance Facilities and Secure Transporters would be allowed in both Commercial and Industrial Zone Districts.

Growers and Processors would be allowed in the Industrial Zone District. A 600 foot buffer would be required between Medical Marihuana Facilities.

1,000 ft. buffer between facilities					600 ft. buffer between facilities				
Residential Buffer	Max Facilities	Ward 1	Ward 2	Ward 3	Residential Buffer	Max Facilities	Ward 1	Ward 2	Ward 3
250 ft	32	18	11	3	250 ft	43	25	15	3
500 ft	24	13	7	4	500 ft	29	15	10	4
750 ft	14	11	3	0	750 ft	17	13	4	0
1000 ft	5	4	1	0	1000 ft	7	6	0	0

Introduction

Michigan
Legislation

Grand Rapids
Suitable Land

Facility Buffers
600/1,000 ft.

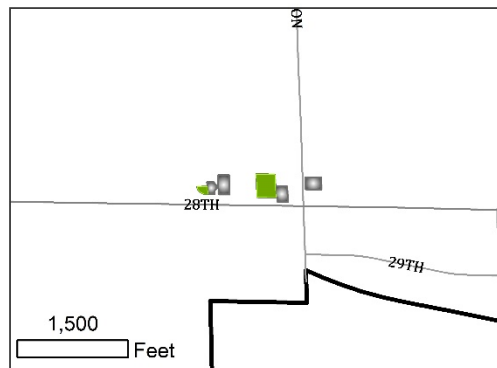
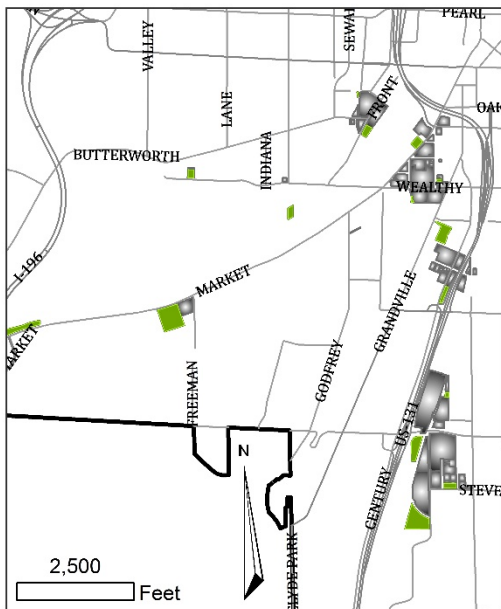
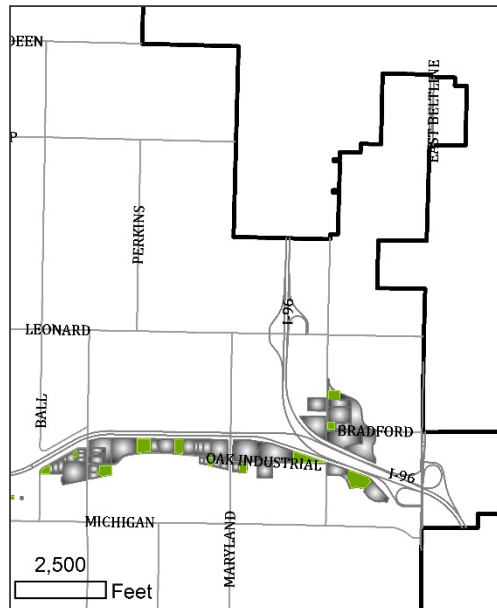
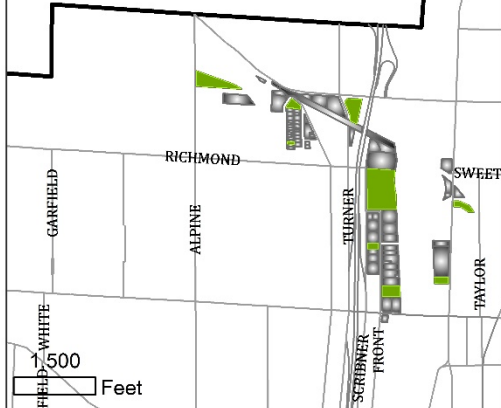
Planning Commission
Recommendation
Provisioning Centers

Planning Commission
Recommendation
Other Facilities

Residential
Buffer

Table of
Contents

Illistrative Example of Facility Buffer: Scenario with 600 Foot Buffers



Distance Buffer	Maximum Possible Facilities
600 Foot	43
1,000 Foot	32
1,250 Foot	26
1,500 Foot	24



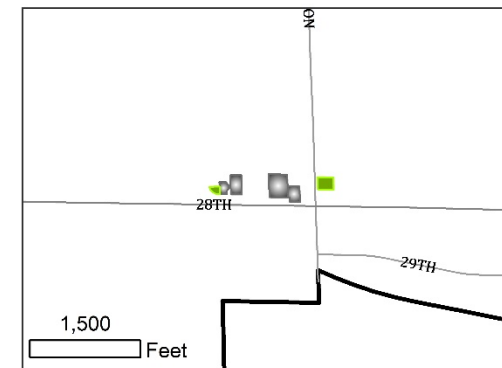
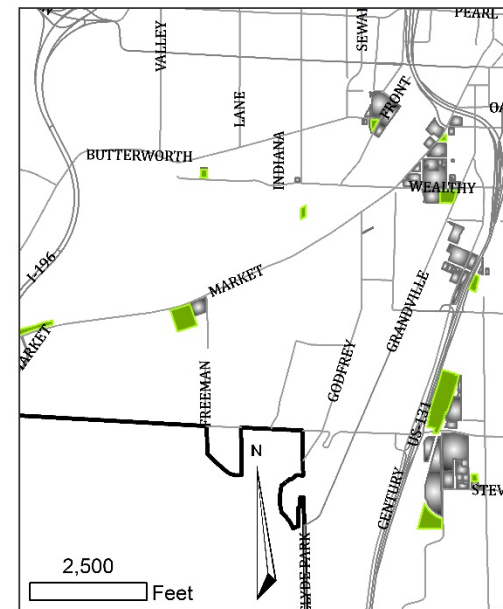
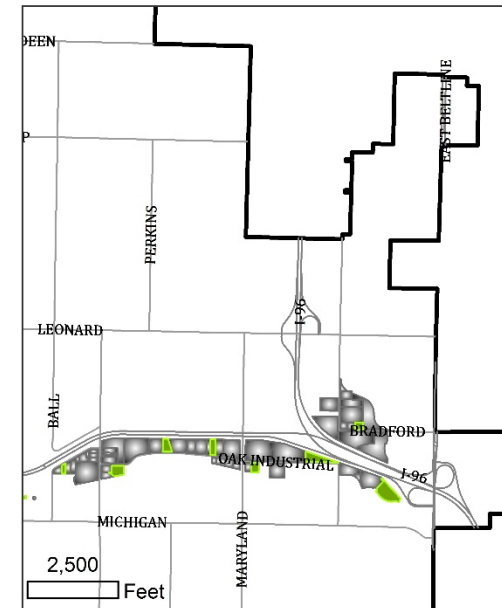
The purpose of this map is to demonstrate how buffers between facilities would impact suitable land.

*This map is intended for internal use only.

*Suitability is an expression of the analysis outcome and does not give authority to conduct a use.

May 2018

Illistrative Example of Facility Buffer: Scenario with 1,000 Foot Buffers



Distance Buffer	Maximum Possible Facilities
600 Foot	43
1,000 Foot	32
1,250 Foot	26
1,500 Foot	24



The purpose of this map is to demonstrate how buffers between facilities would impact suitable land.

*This map is intended for internal use only.

*Suitability is an expression of the analysis outcome and does not give authority to conduct a use.

May 2018

Introduction

Michigan
Legislation

Grand Rapids
Suitable Land

Facility Buffers
600/1,000 ft.

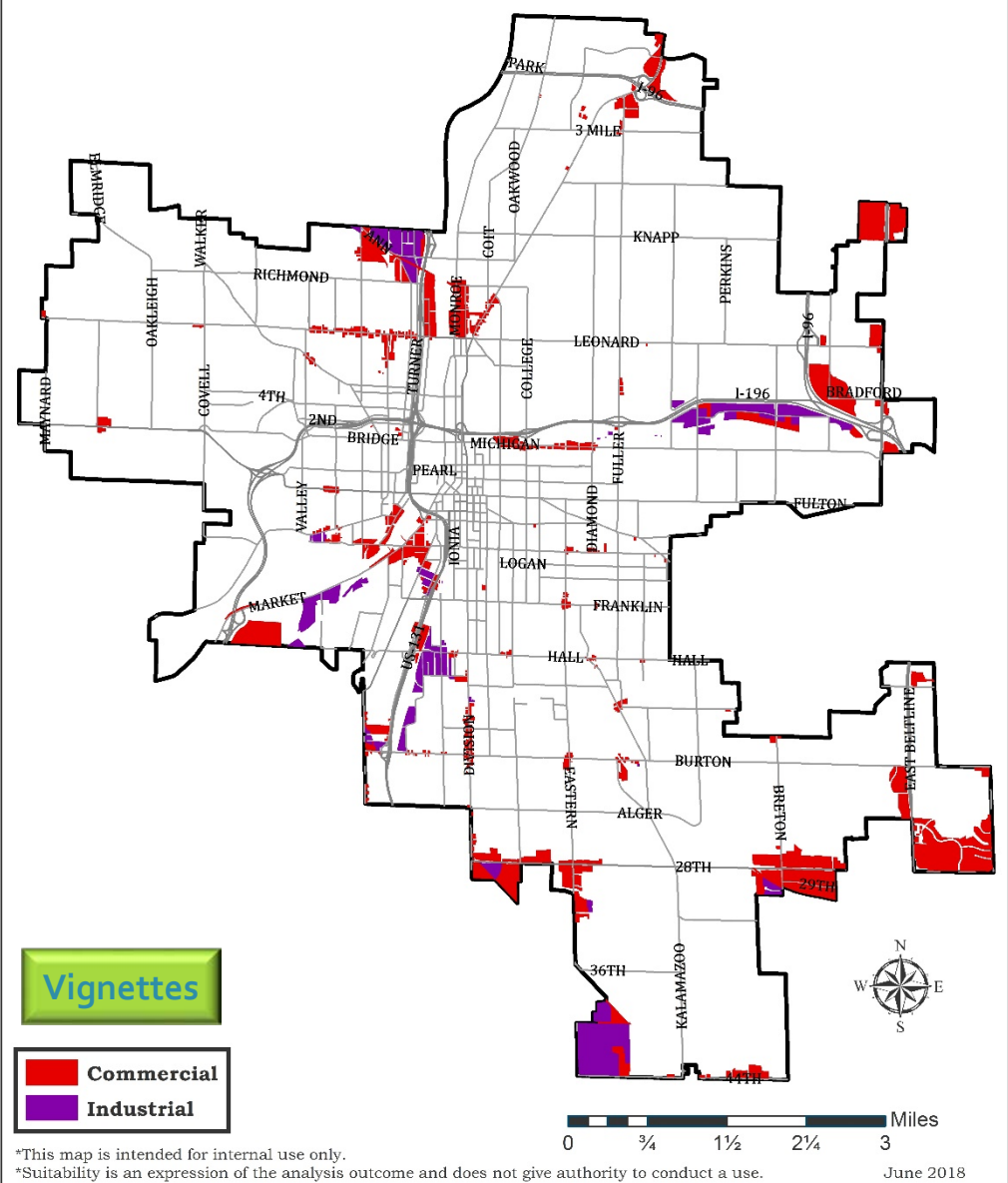
Planning Commission
Recommendation
Provisioning Centers

Planning Commission
Recommendation
Other Facilities

Residential
Buffer

Table of
Contents

Suitable Land for Provisioning Centers
Planning Commission Recommendation



Provisioning Centers

Proposed Zoning Amendments with
Planning Commission Recommendations

Buffers

- 1,000 ft. – Schools
- 1,000 ft. – Childcare Centers
- 1,000 ft. – Parks

Commercial and Industrial:
1,909.89 Acres of Suitable Land

CID	Provision Centers	Other Facilities
West Side	9	34
North Quarter	6	14
Michigan Street	5	15
Uptown	4	9
Southtown	6	16
South Division/ Grandville Ave.	15	30
Downtown	4	19

As recommended by Planning Commission, Medical Marihuana Provisioning Centers would be allowed in both Commercial and Industrial Zone Districts. A 1,000 foot buffer would be required between Provisioning Centers and other Medical Marihuana Facilities.

1,000 ft. buffer between facilities				
Residential Buffer	Max Facilities	1	2	3
-	145	61	45	39
500 ft	44	21	18	4
750 ft	28	12	12	4
1000 ft	12	6	4	2

*Planning Commission did not recommend residential buffers
*As written, Medical Marihuana is not permitted in the City Center Zone District

Introduction

Michigan
Legislation

Grand Rapids
Suitable Land

Facility Buffers
600/1,000 ft.

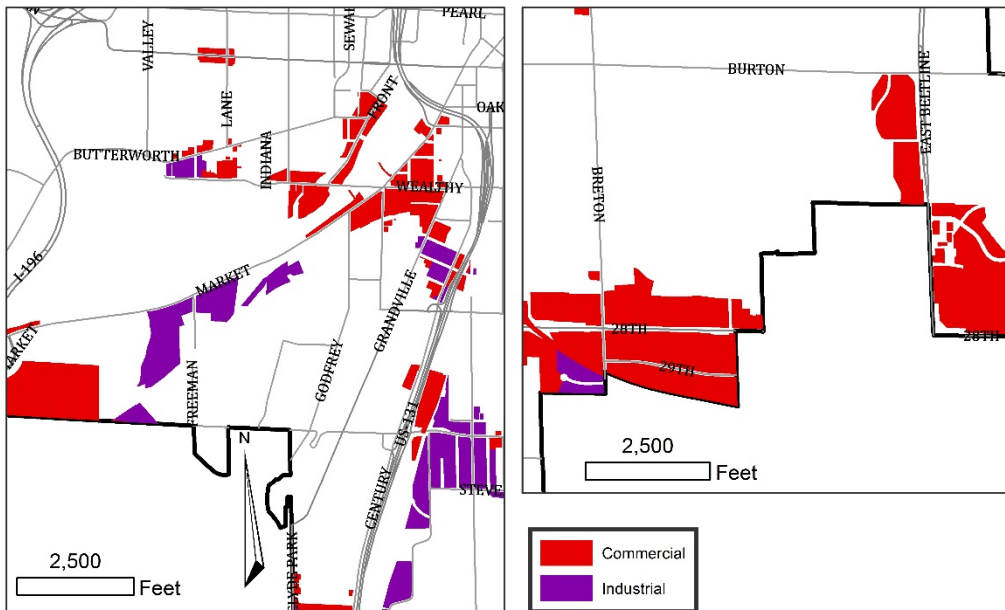
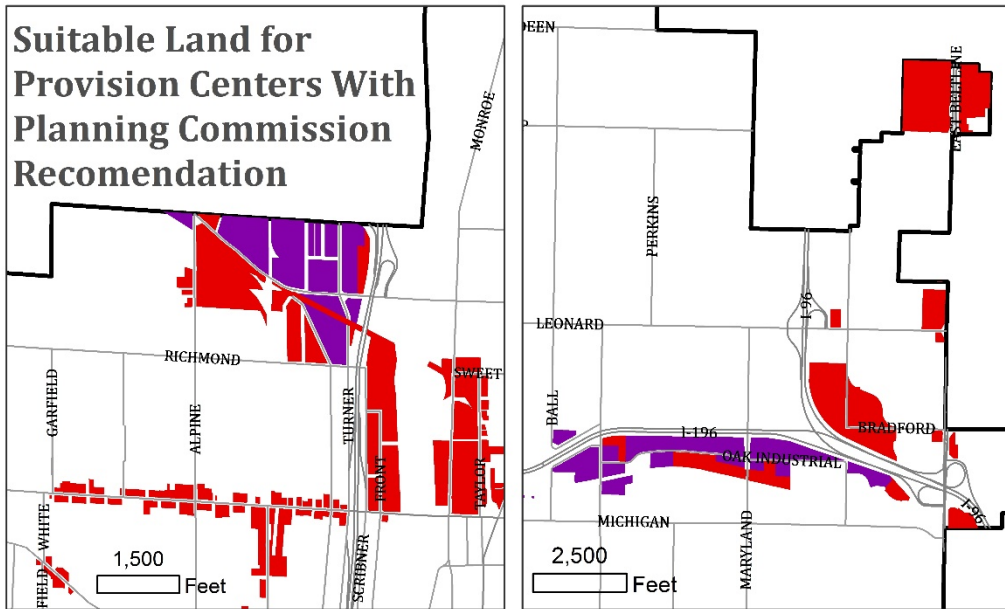
Planning Commission
Recommendation
Provisioning Centers

Planning Commission
Recommendation
Other Facilities

Residential
Buffer

Table of
Contents

Suitable Land for Provision Centers With Planning Commission Recommendation



*This map is intended for internal use only.

*Suitability is an expression of the analysis outcome and does not give authority to conduct a use.

June 2018

Provisioning Centers

Proposed Zoning Amendments with Planning Commission Recommendations

Buffers

- 1,000 ft. – Schools
- 1,000 ft. – Childcare Centers
- 1,000 ft. – Parks

Commercial and Industrial:

1,909.89 Acres of Suitable Land

CID	Provision Centers	Other Facilities
West Side	9	34
North Quarter	6	14
Michigan Street	5	15
Uptown	4	9
Southtown	6	16
South Division/ Grandville Ave.	15	30
Downtown	4	19

As recommended by Planning Commission, Medical Marijuana Provisioning Centers would be allowed in both Commercial and Industrial Zone Districts. A 1,000 foot buffer would be required between Provisioning Centers and other Medical Marijuana Facilities.

1,000 ft. buffer between facilities				
Residential Buffer	Max Facilities	Ward		
		1	2	3
-	145	61	45	39
500 ft	44	21	18	4
750 ft	28	12	12	4
1000 ft	12	6	4	2

*Planning Commission did not recommend residential buffers
*As written, Medical Marijuana is not permitted in the City Center Zone District

Introduction

Michigan
Legislation

Grand Rapids
Suitable Land

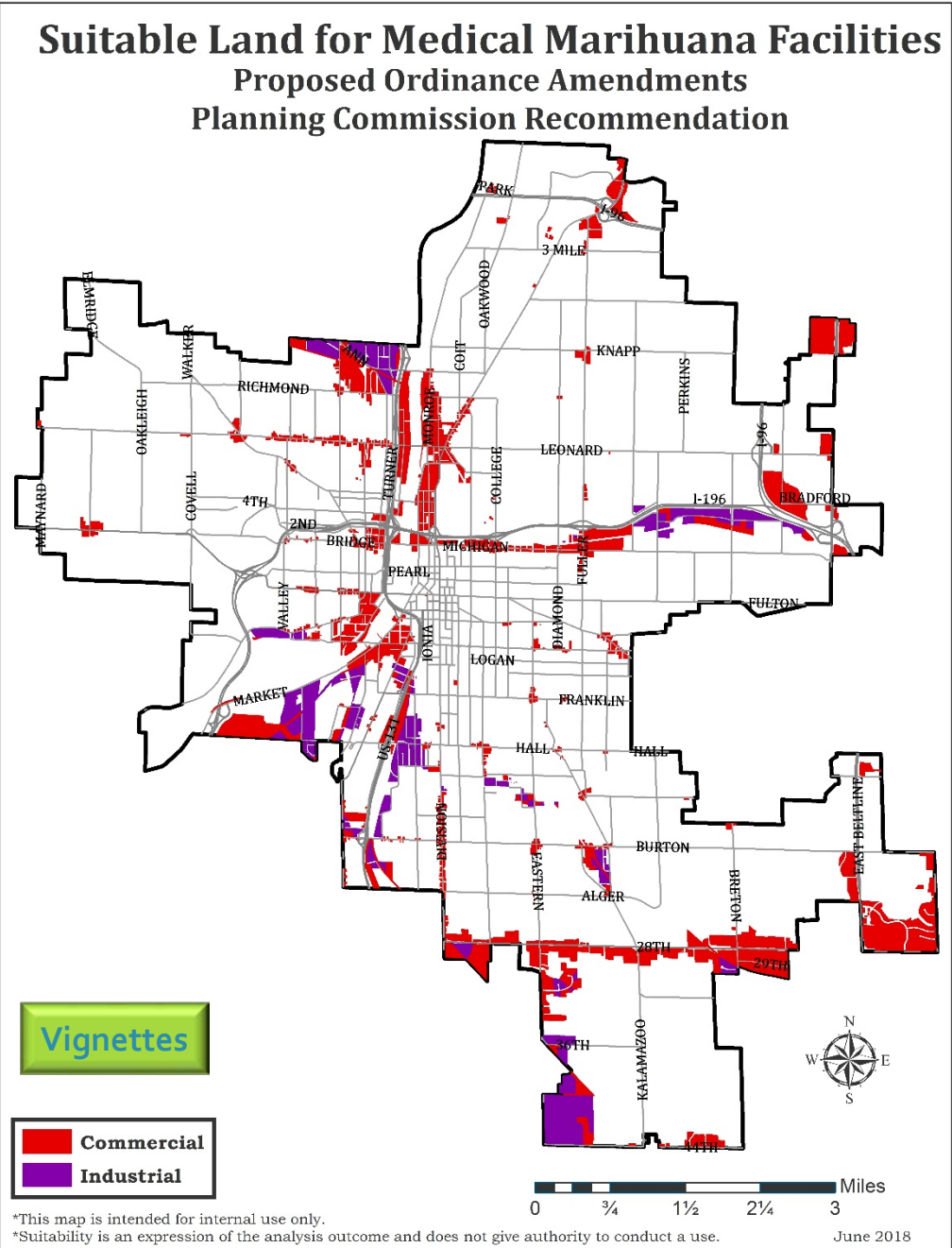
Facility Buffers
600/1,000 ft.

Planning Commission
Recommendation
Provisioning Centers

Planning Commission
Recommendation
Other Facilities

Residential
Buffer

Table of
Contents



Secure Transporters, Safety Compliance Facilities, Growers, and Processors

Proposed Zoning Amendments with Planning Commission Recommendations

- Buffers
- 1,000 ft. – Schools
 - 1,000 ft. – Childcare Centers

Commercial & Industrial:
2,991.83 Acres of Suitable Land
Industrial:
1812.61 Acres of Suitable Land

As recommended by Planning Commission, Medical Marihuana Safety Compliance Facilities and Secure Transporters would be allowed in both Commercial and Industrial Zone Districts. Growers and Processors would be allowed in the Industrial Zone District. A 600 foot buffer would be required between other Medical Marihuana Facilities.

CID	Provision Centers	Other Facilities
West Side	9	34
North Quarter	6	14
Michigan Street	5	15
Uptown	4	9
Southtown	6	16
South Division/ Grandville Ave.	15	30
Downtown	4	19

600 ft. between facilities				
Residential Buffer	Max Facilities	1	2	3
-	377	146	127	104
500 ft	83	43	22	18
750 ft	63	32	17	14
1000 ft	34	16	7	11

*Planning Commission did not recommend residential buffers
*As written, Medical Marihuana is not permitted in the City Center Zone District

Introduction

Michigan
Legislation

Grand Rapids
Suitable Land

Facility Buffers
600/1,000 ft.

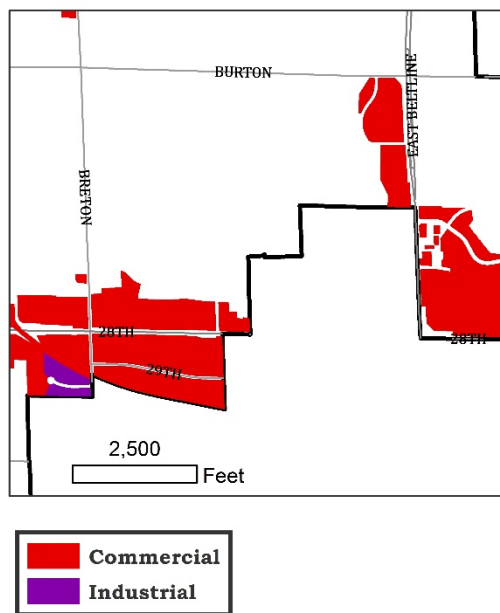
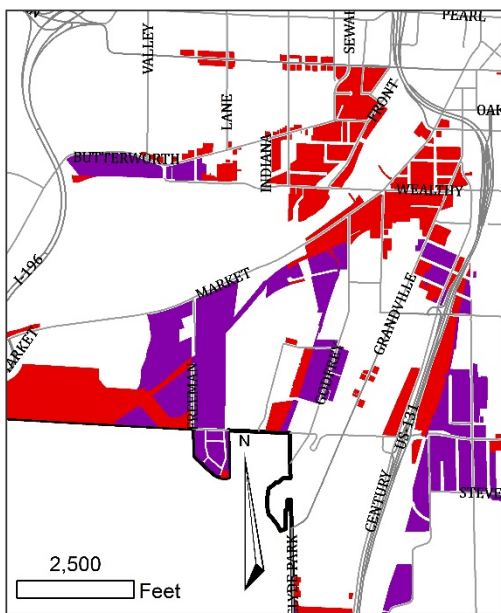
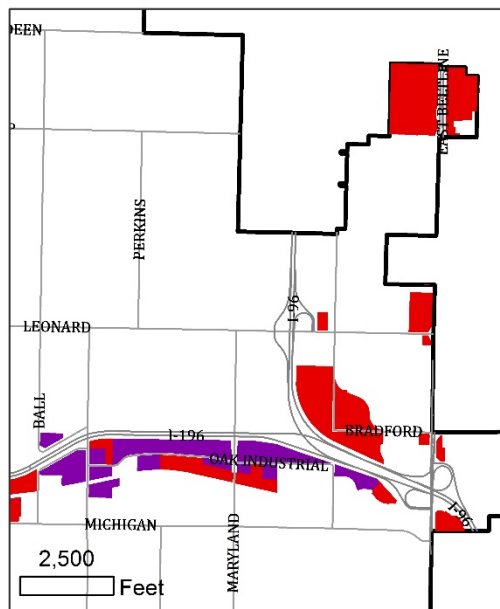
Planning Commission
Recommendation
Provisioning Centers

Planning Commission
Recommendation
Other Facilities

Residential
Buffer

Table of
Contents

Suitable Land for Other Facilities With Planning Commission Recommendation



*This map is intended for internal use only.

*Suitability is an expression of the analysis outcome and does not give authority to conduct a use.

June 2018

Secure Transporters, Safety Compliance Facilities, Growers, and Processors

Proposed Zoning Amendments with Planning Commission Recommendations

Buffers

- 1,000 ft. – Schools
- 1,000 ft. – Childcare Centers

Commercial & Industrial:
2,991.83 Acres of Suitable Land
Industrial:
1812.61 Acres of Suitable Land

As recommended by Planning Commission, Medical Marihuana Safety Compliance Facilities and Secure Transporters would be allowed in both Commercial and Industrial Zone Districts. Growers and Processors would be allowed in the Industrial Zone District. A 600 foot buffer would be required between other Medical Marihuana Facilities.

CID	Provision Centers	Other Facilities
West Side	9	34
North Quarter	6	14
Michigan Street	5	15
Uptown	4	9
Southtown	6	16
South Division/ Grandville Ave.	15	30
Downtown	4	19

600 ft. between facilities				
Residential Buffer	Max Facilities	Ward		
		1	2	3
-	377	146	127	104
500 ft	83	43	22	18
750 ft	63	32	17	14
1000 ft	34	16	7	11

*Planning Commission did not recommend residential buffers
*As written, Medical Marihuana is not permitted in the City Center Zone District

Introduction

Michigan
Legislation

Grand Rapids
Suitable Land

Facility Buffers
600/1,000 ft.

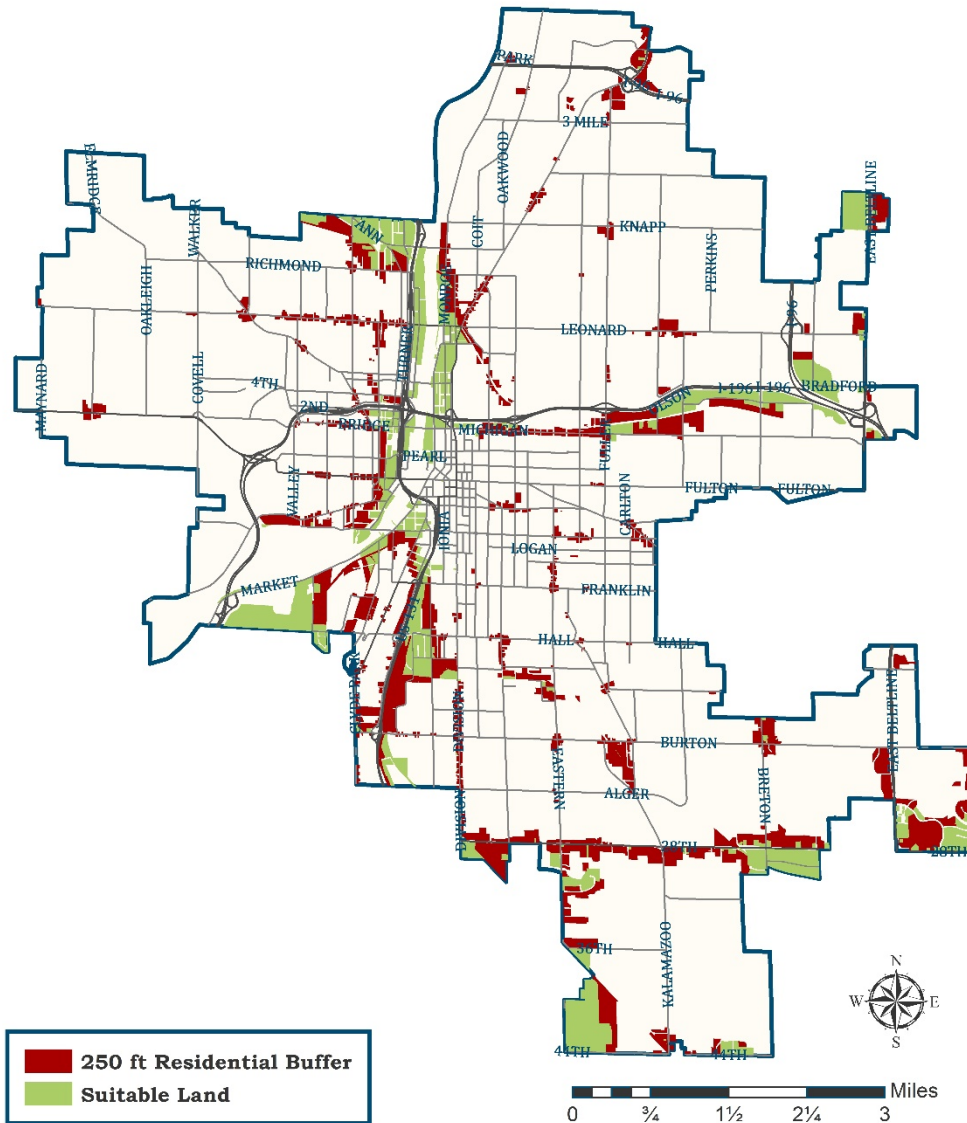
Planning Commission
Recommendation
Provisioning Centers

Planning Commission
Recommendation
Other Facilities

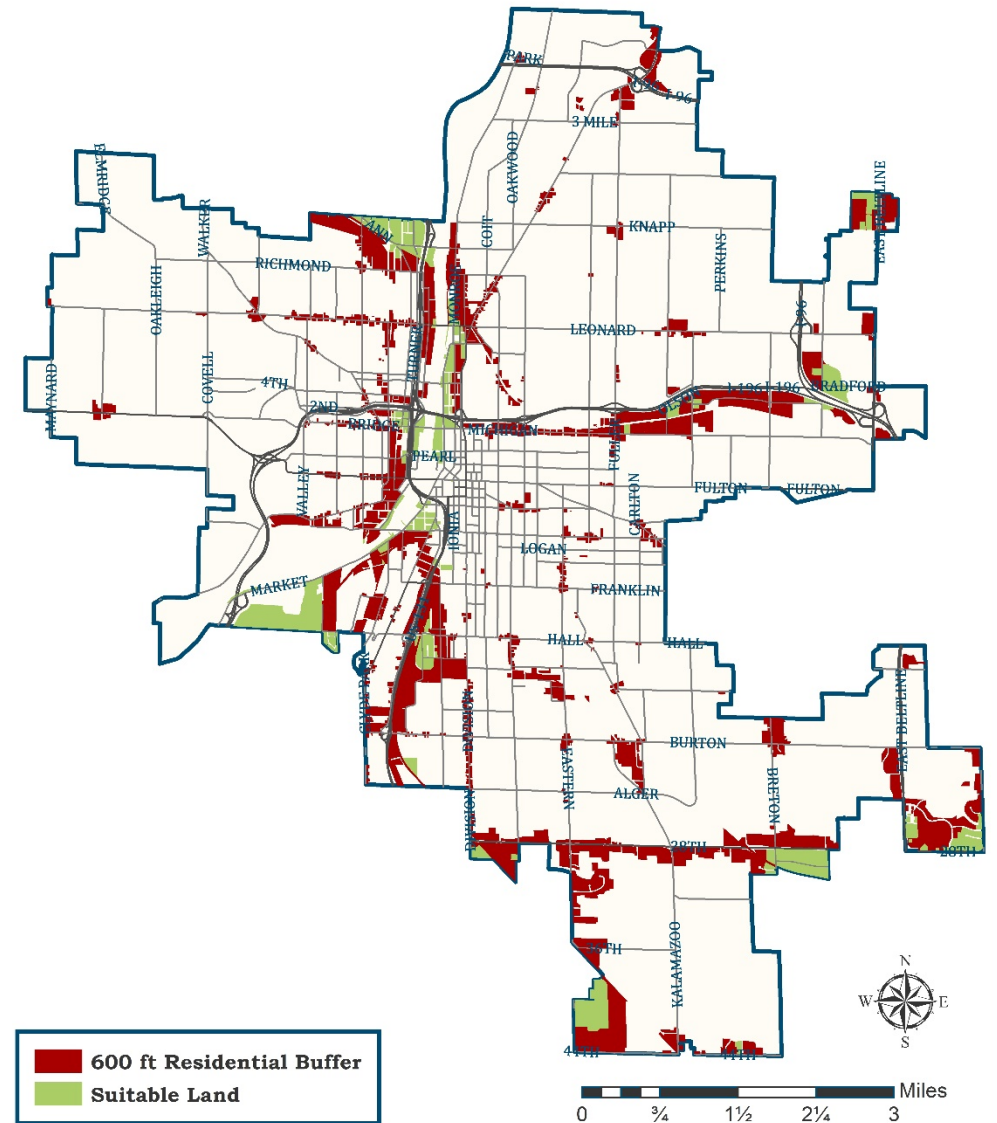
Residential
Buffer

Table of
Contents

Suitable Land with 250 ft Residential Buffer



Suitable Land with 600 ft Residential Buffer



Sensitive Uses

Schools

Child Cares

Rehab Center

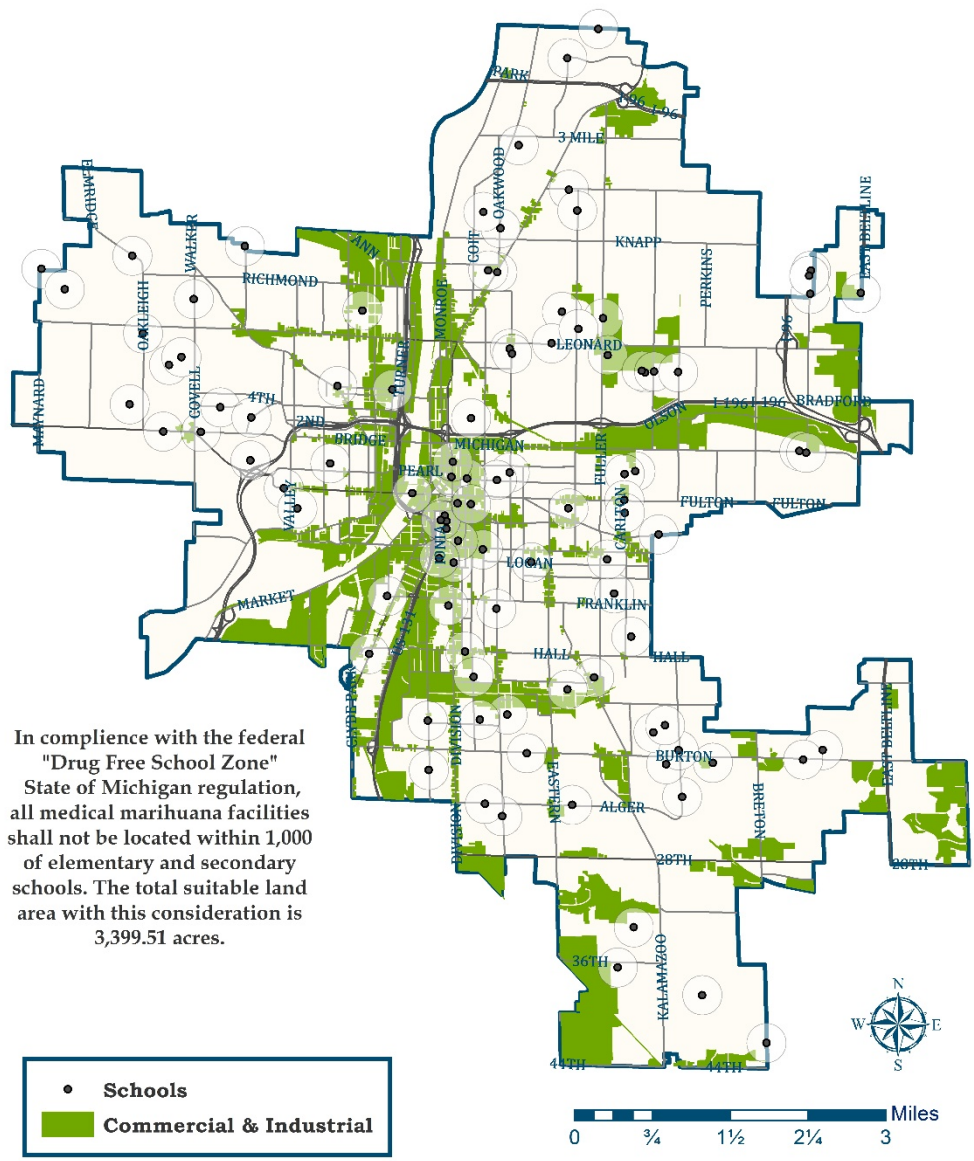
Parks

Religious Institutions

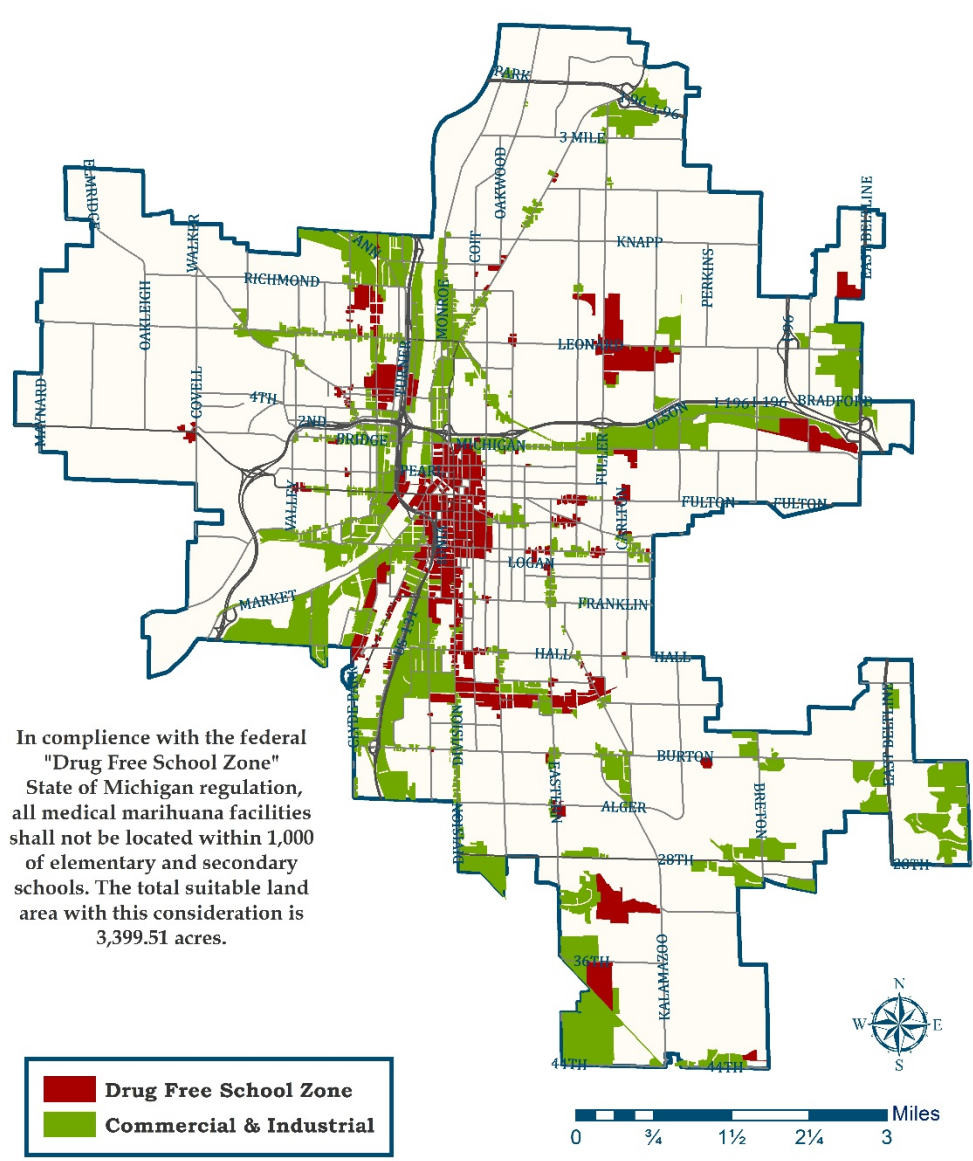
Municipal Borders

Table of Contents

Commercial & Industrial Zones Based Outside of the Drug Free School Zone



Commercial & Industrial Zones Based Outside of the Drug Free School Zone



Sensitive Uses

Schools

Child Cares

Rehab Center

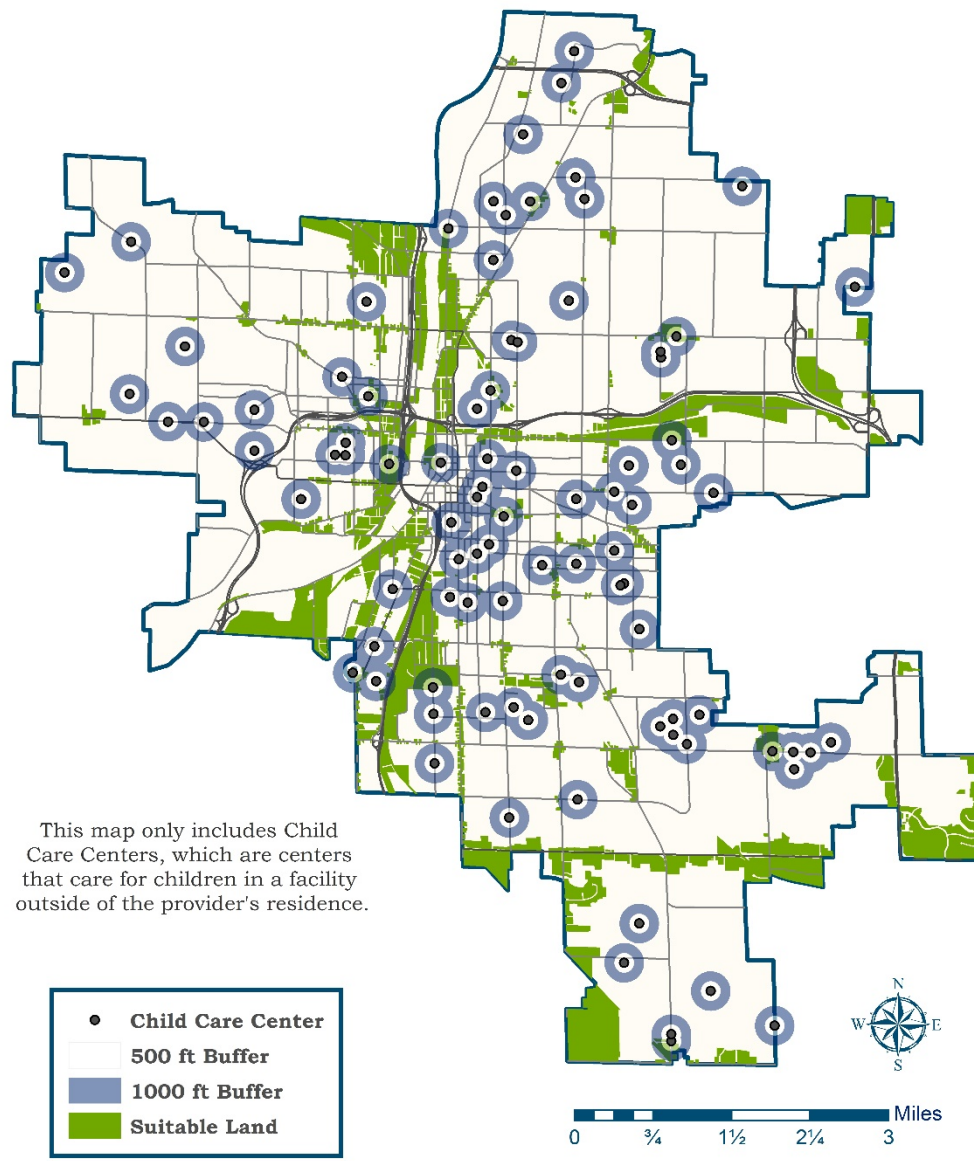
Parks

Religious Institutions

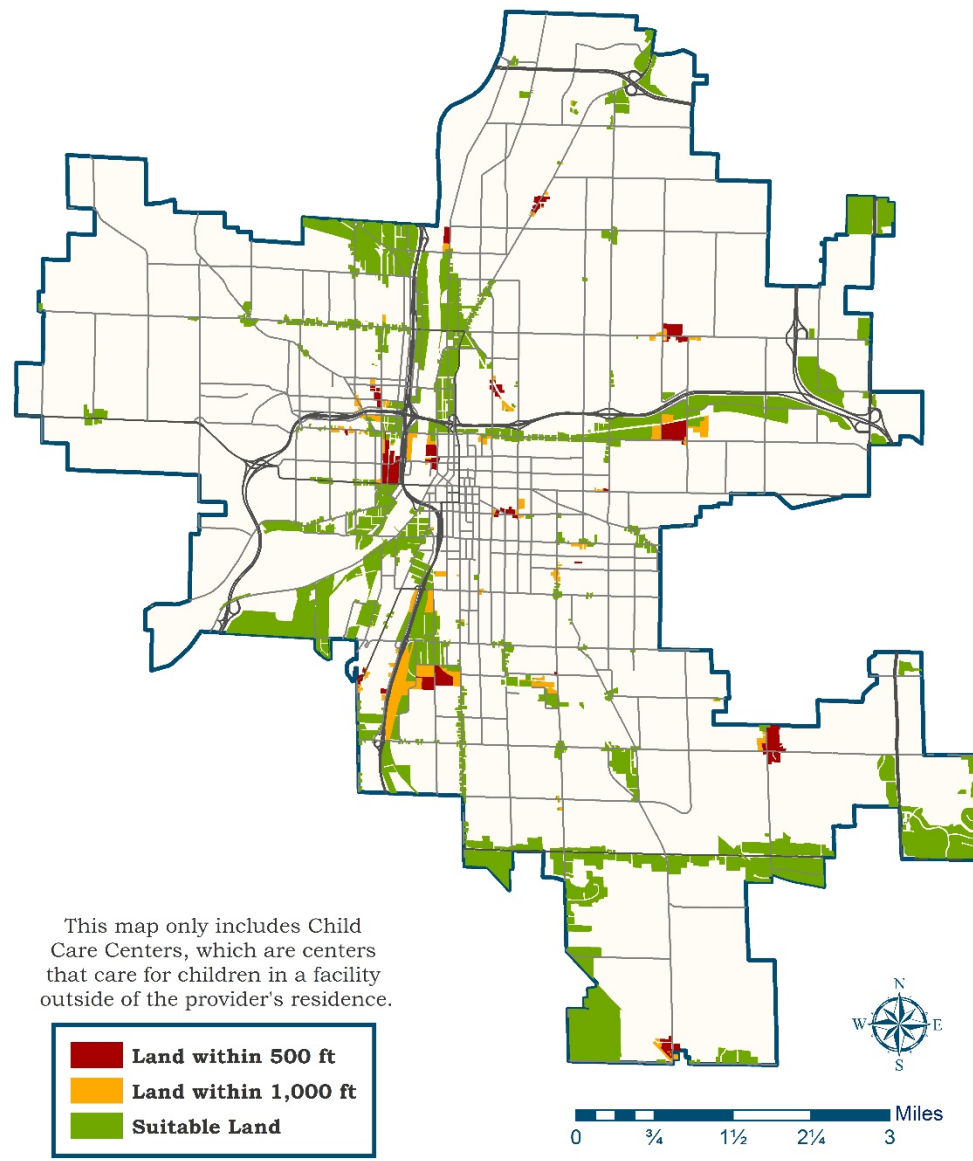
Municipal Borders

Table of Contents

Grand Rapids Child Care Centers



Grand Rapids Child Care Centers



Sensitive Uses

Schools

Child Cares

Rehab Center

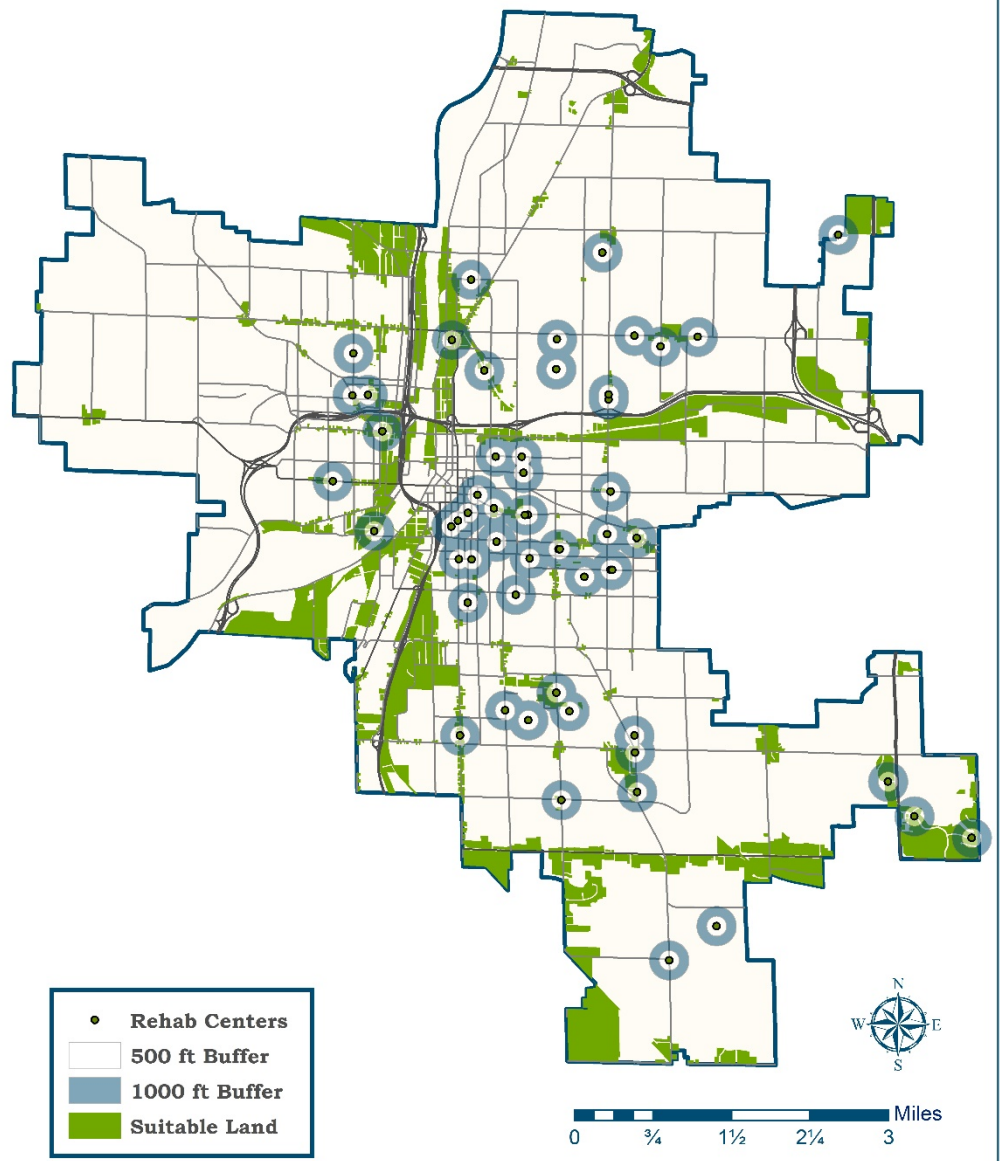
Parks

Religious Institutions

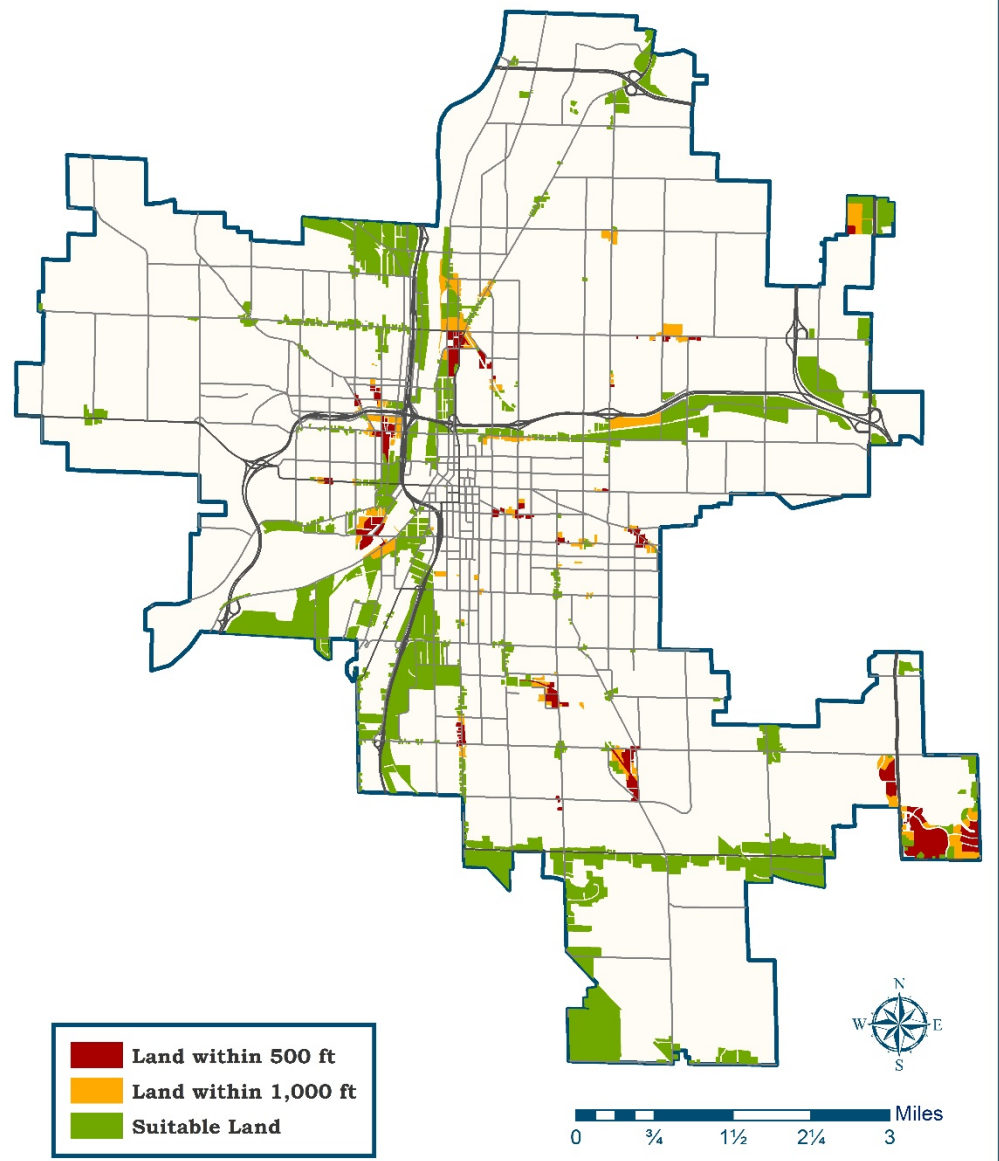
Municipal Borders

Table of Contents

Grand Rapids Rehab Centers



Grand Rapids Rehab Centers



Sensitive Uses

Schools

Child Cares

Rehab Center

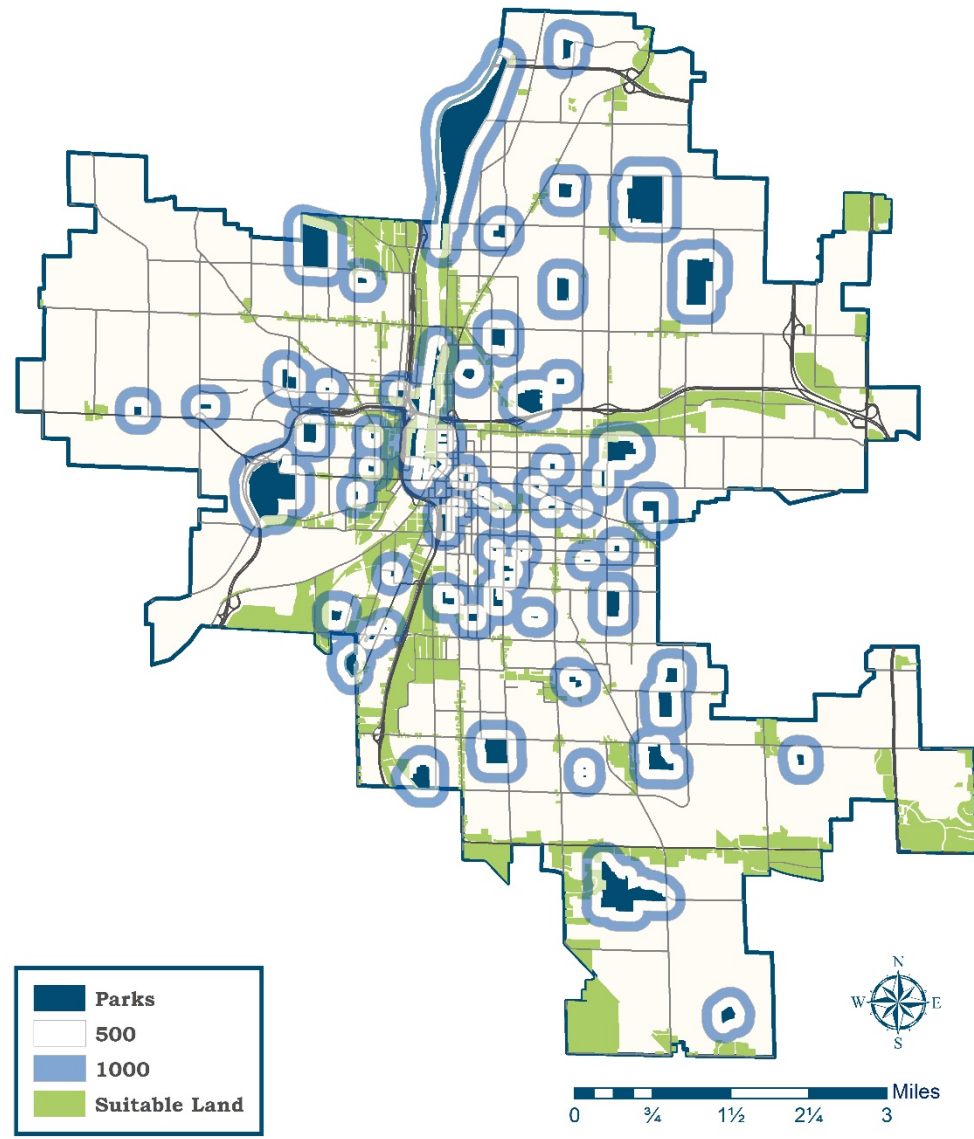
Parks

Religious
Institutions

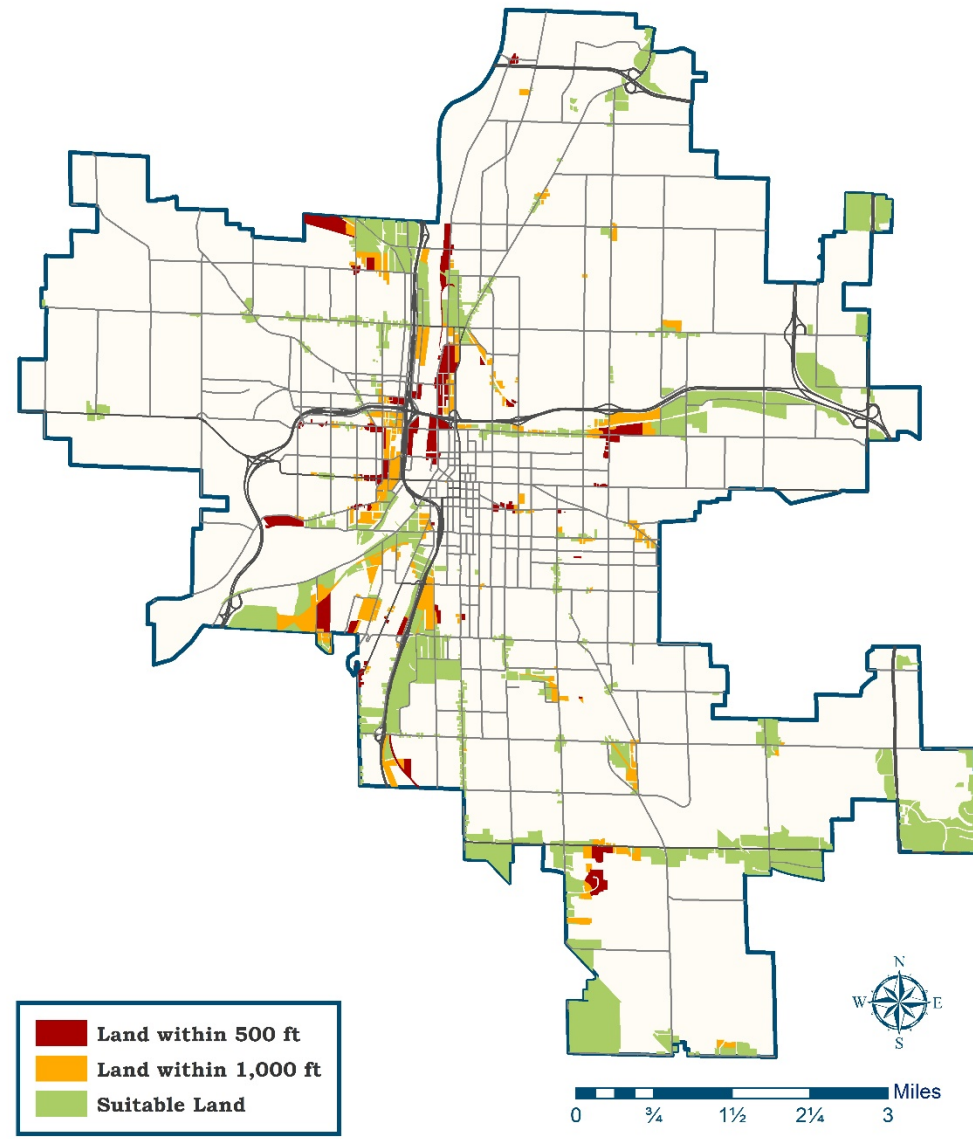
Municipal
Borders

Table of
Contents

Grand Rapids Parks



Grand Rapids Parks



Sensitive Uses

Schools

Child Cares

Rehab Center

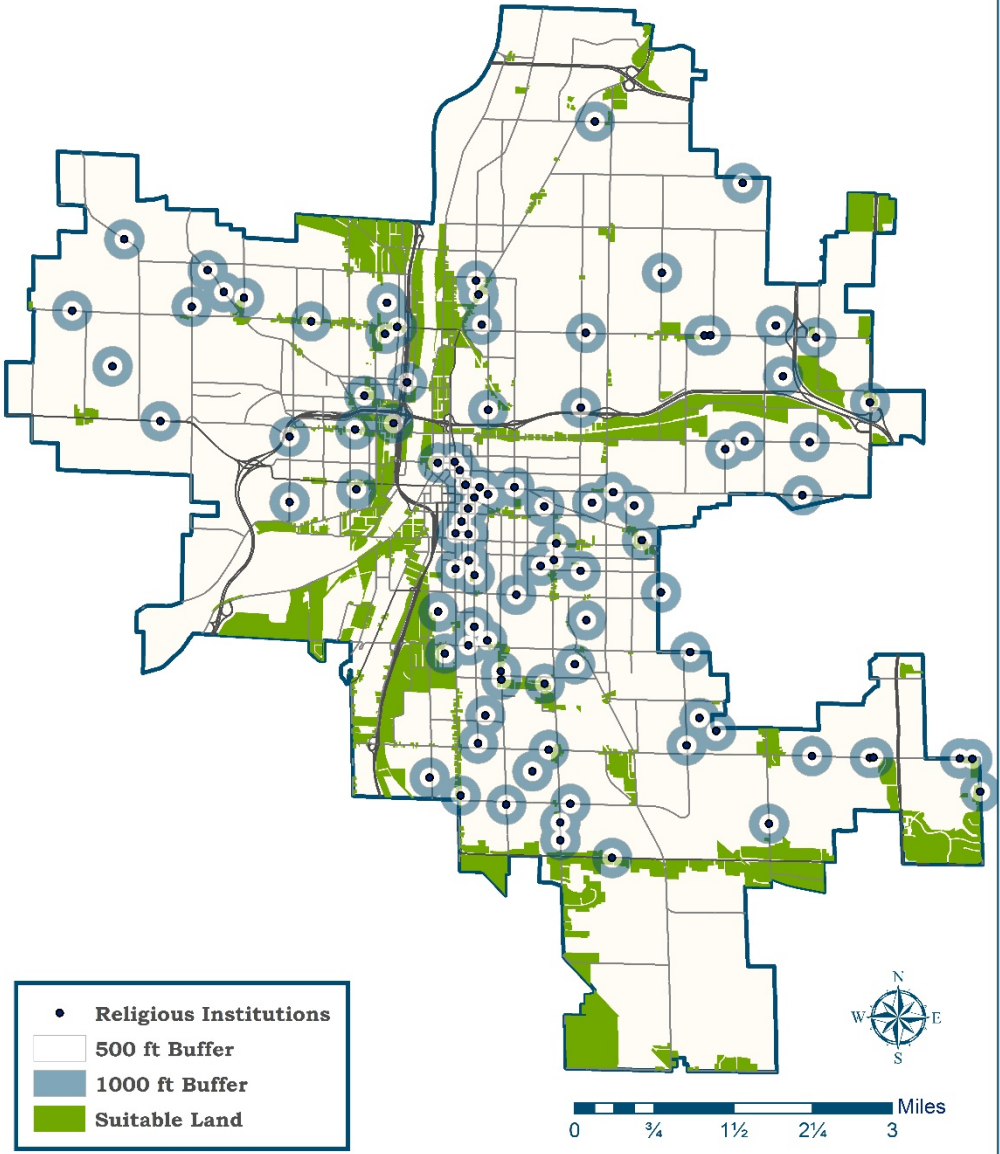
Parks

Religious Institutions

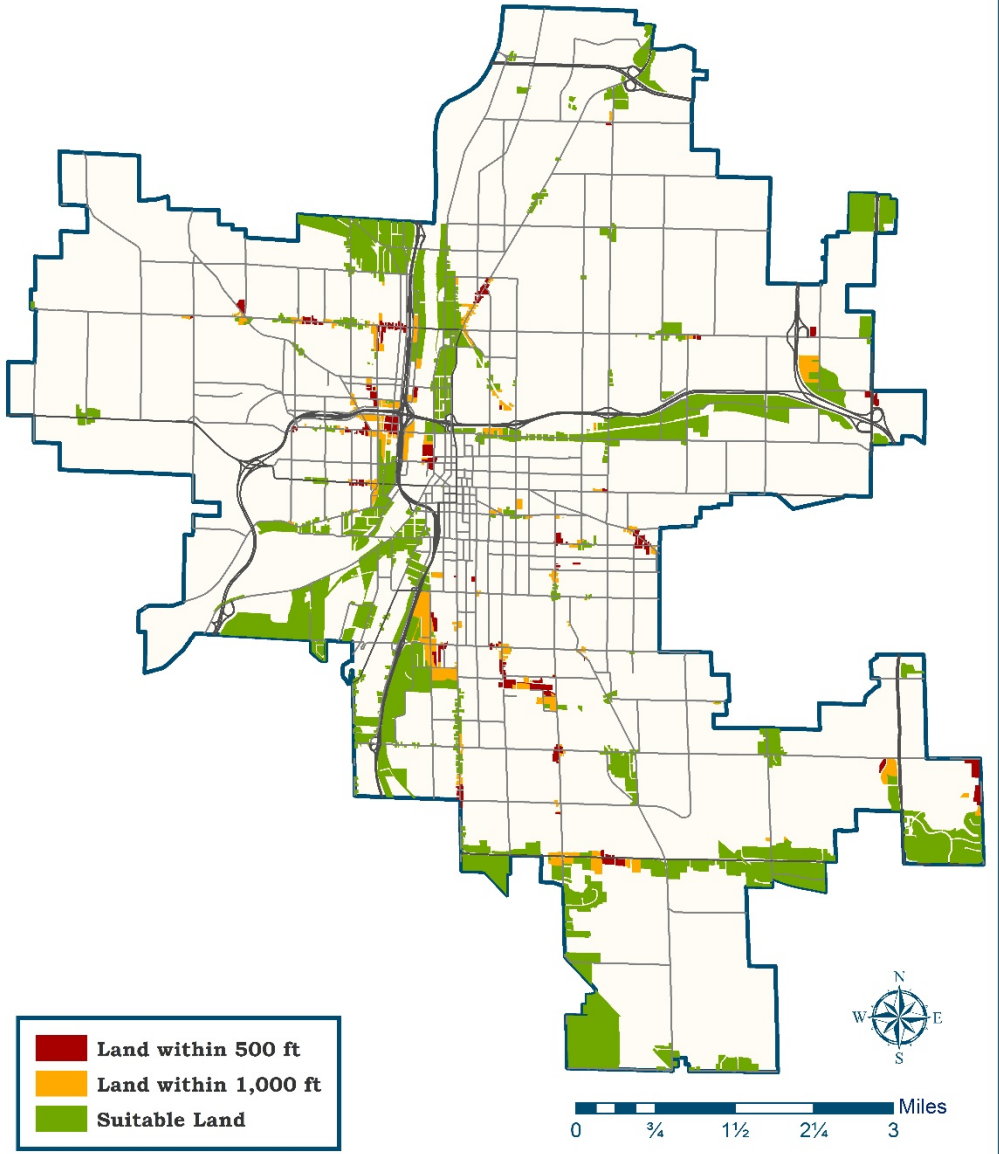
Municipal Borders

Table of Contents

Grand Rapids Religious Institutions



Grand Rapids Religious Institutions



Sensitive Uses

Schools

Child Cares

Rehab Center

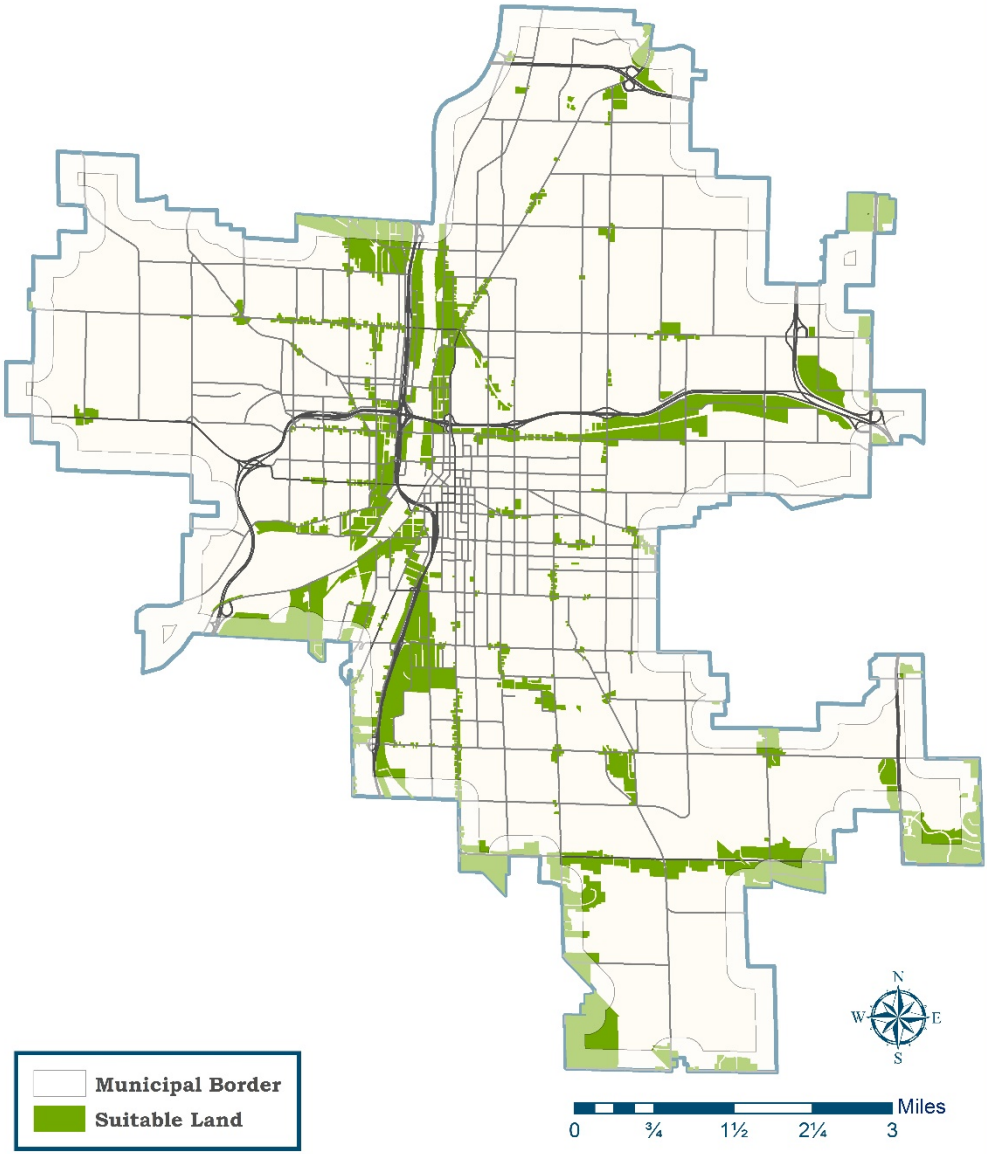
Parks

Religious
Institutions

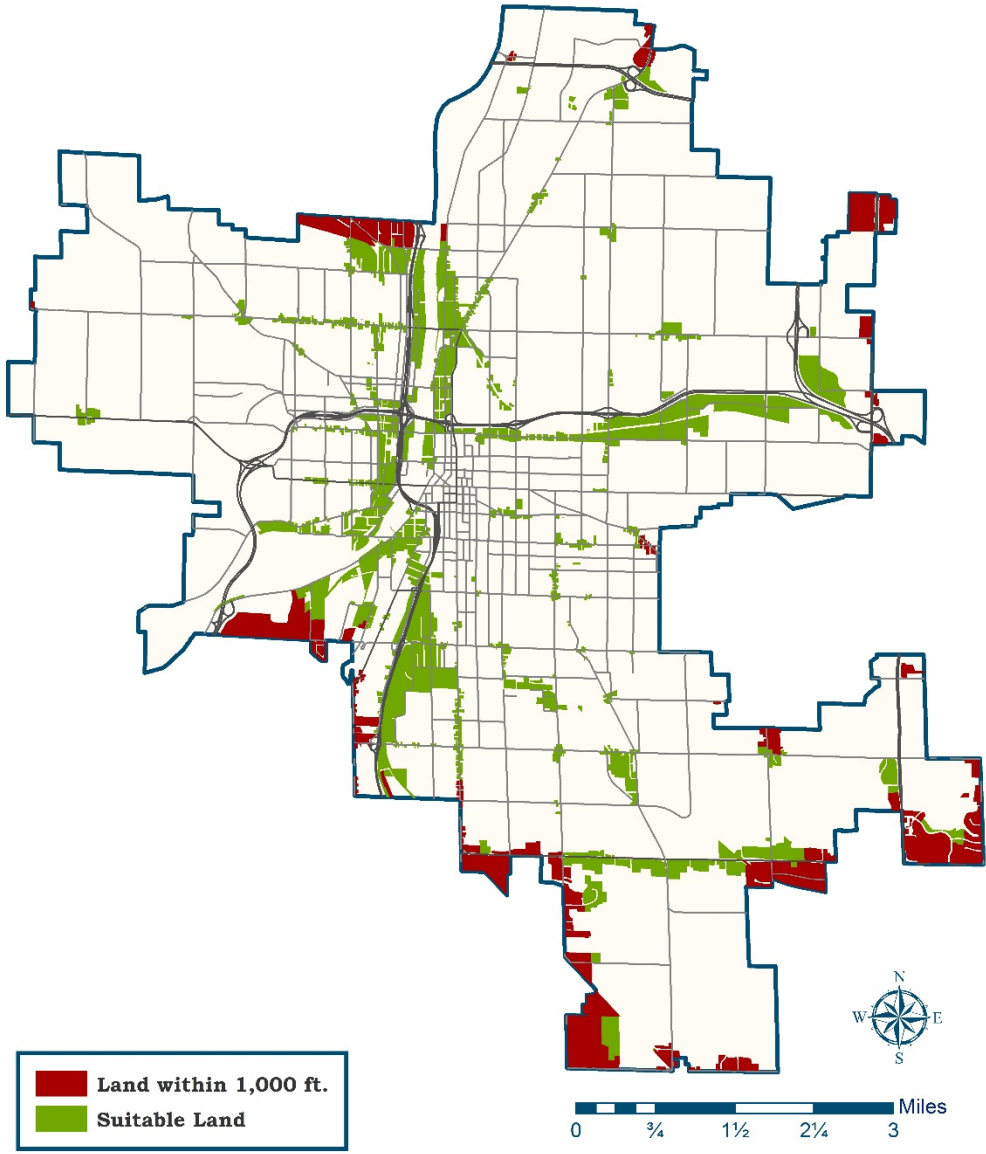
Municipal
Borders

Table of
Contents

Grand Rapids Municipal Buffers



Grand Rapids Municipal Buffers



Introduction

Ann Arbor

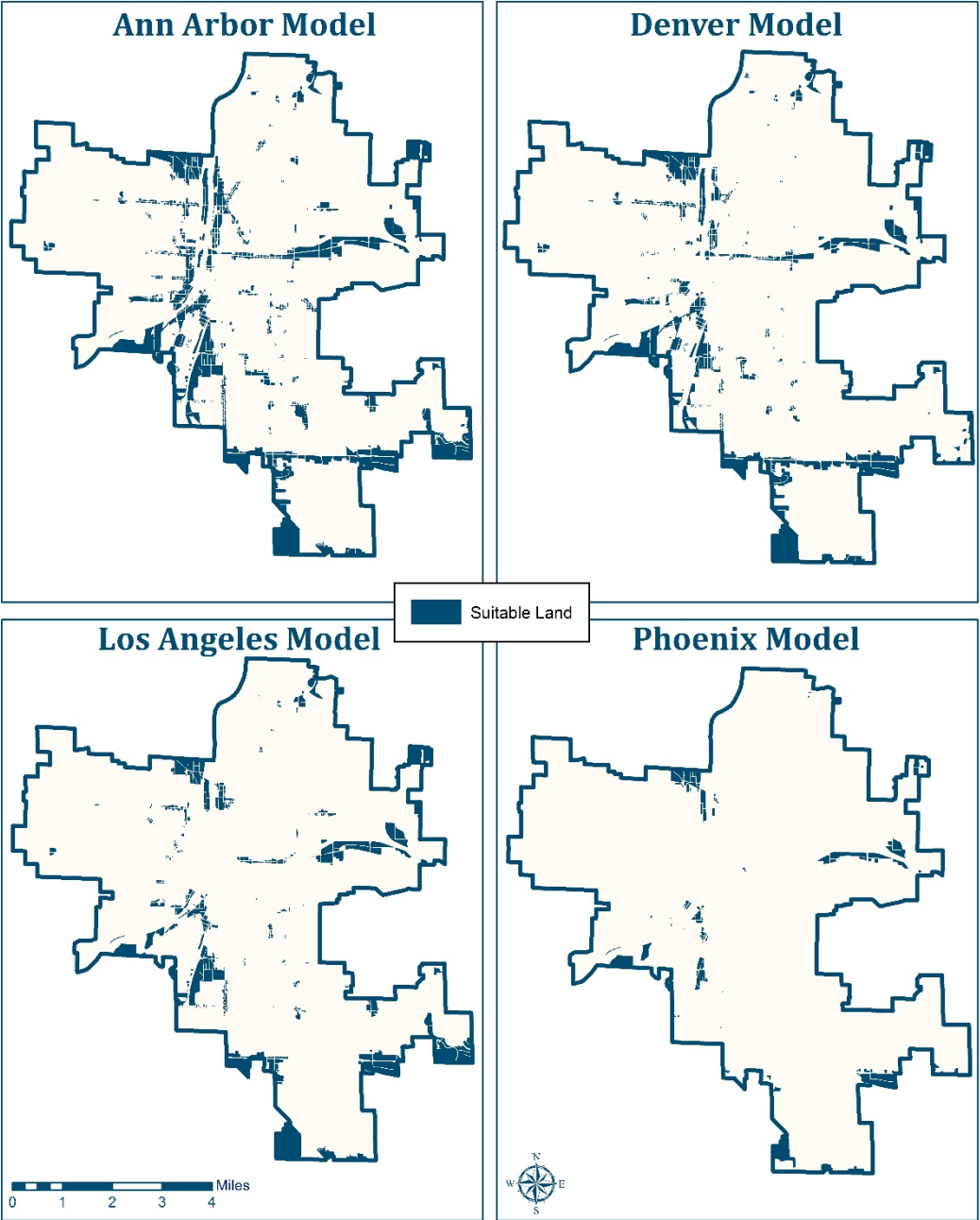
Denver

Los Angeles

Phoenix

Table of Contents

Suitable Land by Proximity Buffers

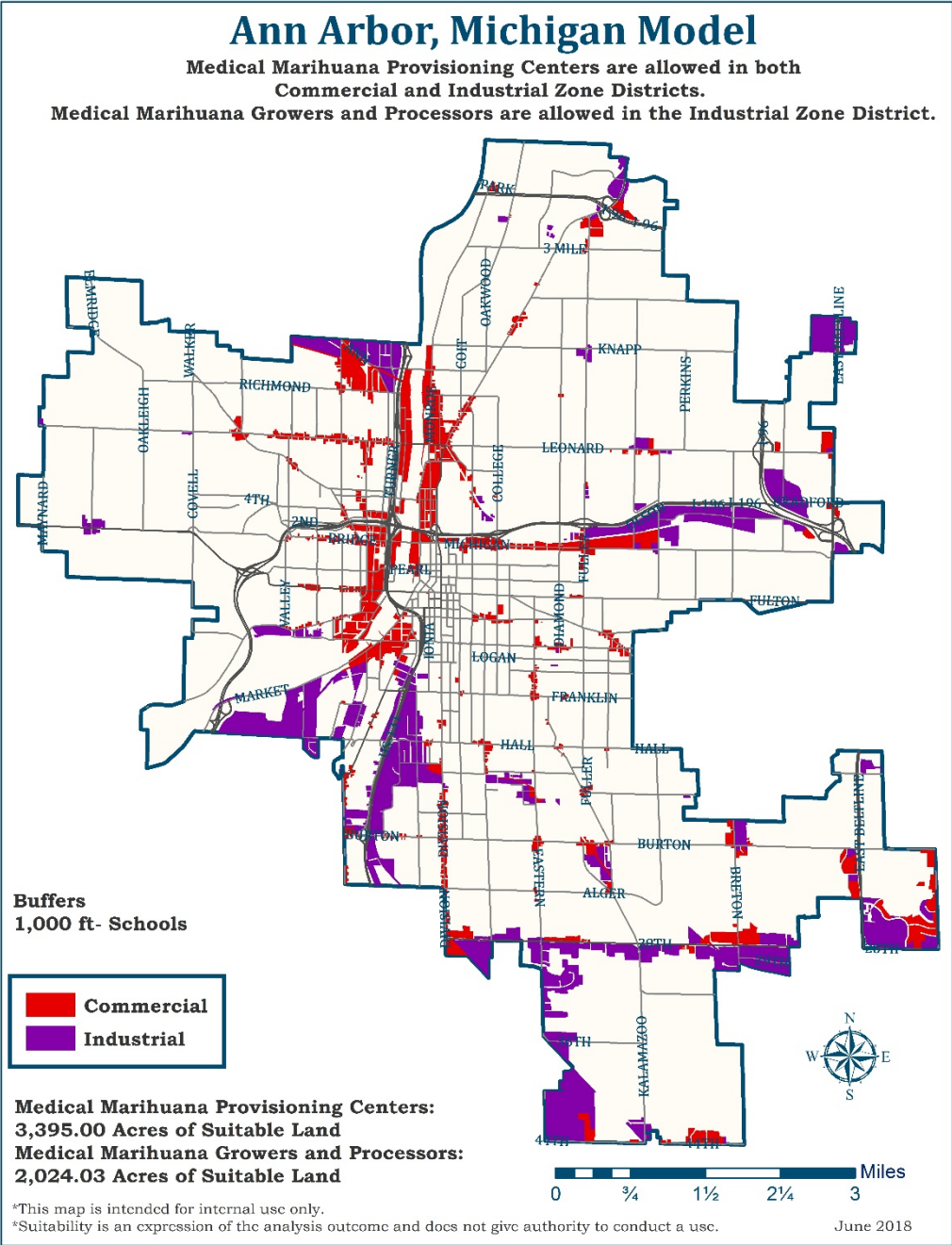


	Permitted	prohibited	Schools	Residential Zone Districts	Other Marijuana Facilities	Other Sensitive Facilities
Ann Arbor	Downtown Campus Industrial		1,000			
Denver		Residential	1,000		1,000	1,000 Childcare 1,000 Rehab Center
Los Angeles			1,320	250	1,000	500 Churches 1,320 Parks
Phoenix	Commercial		1,320	500	5,280	1,320 Childcare 1,320 Churches 1,320 Parks 1,320 Rehab Center

	Land Area	Population	Population Density*
Grand Rapids	45.27	192,416	4250
Ann Arbor	28.69	116,194	4050
Denver	155	649,654	4191
Los Angeles	503	3,900,794	7755
Phoenix	517	1,514,208	2929
* Population density is per square mile			

	Alarm Systems	Security Cameras	Outdoor Lighting	Limited hours
Ann Arbor	X	X		X
Denver	X	X		X
Los Angeles	X	X	X	X
Phoenix				

Suitable Land within Grand Rapids		
	Commercial & Industrial	Industrial
Ann Arbor Model	3,395.00	2,024.32
Denver Model	2,485.08	1,614.39
Los Angeles Model	2,086.37	1,405.28
Phoenix Model	739.03	588.77
-suitable land is calculated in acres		



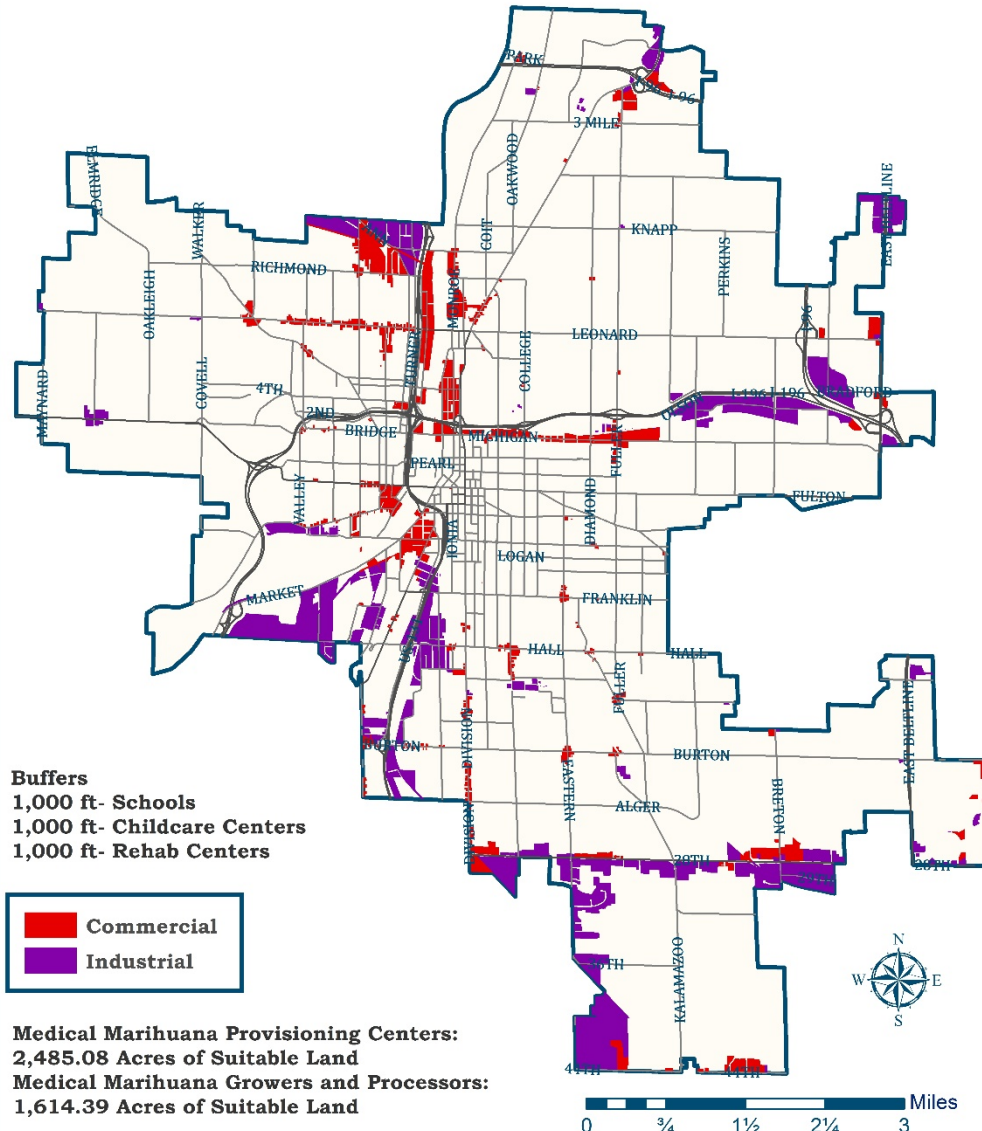
Ann Arbor has maintained a moratorium on new medical Marihuana facilities since August 5, 2010, but existing facilities are eligible to renew their current license. It is the least restrictive on proximity buffers, but has a number of operational requirements. The zoning ordinance allows for “Medical Marihuana Dispensaries” which are similar to provisioning centers, and “medical Marihuana cultivation facilities” which would be similar to a grow facility, though only up to 72 plants are permitted. Dispensaries are allowed in Downtown, Commercial, or Industrial zone districts. Cultivation facilities are to be located in Commercial, Industrial, Research District or Office/Research/Limited Industrial zone districts. Operational restrictions or requirements include external and internal security cameras with records kept for at least 72 hours, safe overnight storage for products and money, and monitoring alarms. Additionally, hours of operation must be between 7:00am and 9:00pm. These issues are not handed in zoning, but in granting of the application.

The zoning code states that medical Marihuana dispensaries must comply with the 1,000 foot buffer around schools, but have no other buffer restrictions. Also, all operations for both types of facilities must be conducted indoors. No drive-through dispensaries are allowed. It is unlawful to use any processing methods that create noise, dust, vibration, glare, fumes, odors, or electrical interference beyond the property border. The zoning code also clarifies that no person may reside in any type of medical Marihuana facility. (Section 5:20.1. of the Ann Arbor City Zoning Ordinance)

Denver, Colorado Model

Medical Marihuana Provisioning Centers are allowed in both Commercial and Industrial Zone Districts.

Medical Marihuana Growers and Processors are allowed in the Industrial Zone District.



*This map is intended for internal use only.

*Suitability is an expression of the analysis outcome and does not give authority to conduct a use.

June 2018

Colorado, unlike Michigan, allows consumption of Marihuana for recreational use. While it changes some parameters of the use, it does not disqualify Denver as a viable model to study for future zoning. Colorado has allowed the use of medical Marihuana since 2000, and has pioneered the task of zoning for medical Marihuana. Also, some of the top researchers on medical Marihuana and zoning for medical Marihuana are located in Denver.

Denver allows for “retail Marihuana stores”, similar to provisioning centers, “retail Marihuana products manufacturers”, which is similar to processors, and “retail Marihuana cultivating facilities”, which is similar to growers. They also allow for retail Marihuana testing facilities, which are not considered in this research but are provided for under the Michigan legislative changes.

As of May, 2016, Denver will have an annual open application for retail Marihuana stores. The planning director will put a cap on the number of new facilities that receive a license and that number will change from year to year based on the number of facilities that are operating shortly before the open application period. Applicants eligible for the license are then selected by blind lottery. If selected, applicant must provide a map, drawn to scale, containing all schools, childcare centers, rehab centers, and any other Marihuana facilities within 1,000 feet. Medical Marihuana facilities are not permitted within 1,000 feet of the uses that are required to be listed on the map. Public notice and hearing are also required. A sign no smaller than 22Wx24H is required to be posted at the location of the proposed Marihuana facility containing information of the use and contact information. Lastly, facilities are not permitted in residential zone district and some mixed use commercial districts.

Retail Marihuana product manufacturers are only allowed in certain heavy industrial zone districts unless grandfathered in by an existing Marihuana use. Retail Marihuana cultivating facilities are allowed in zone districts designated for plant husbandry. They are not allowed within 1,000 feet of schools or within 1,000 feet of residential zone districts. Public notice is not required for these establishments, unless the director finds it necessary. (Section 5.6-211 and Section 5.6-212 of the Denver Zoning Ordinance)

City Models

Introduction

Ann Arbor

Denver

Los Angeles

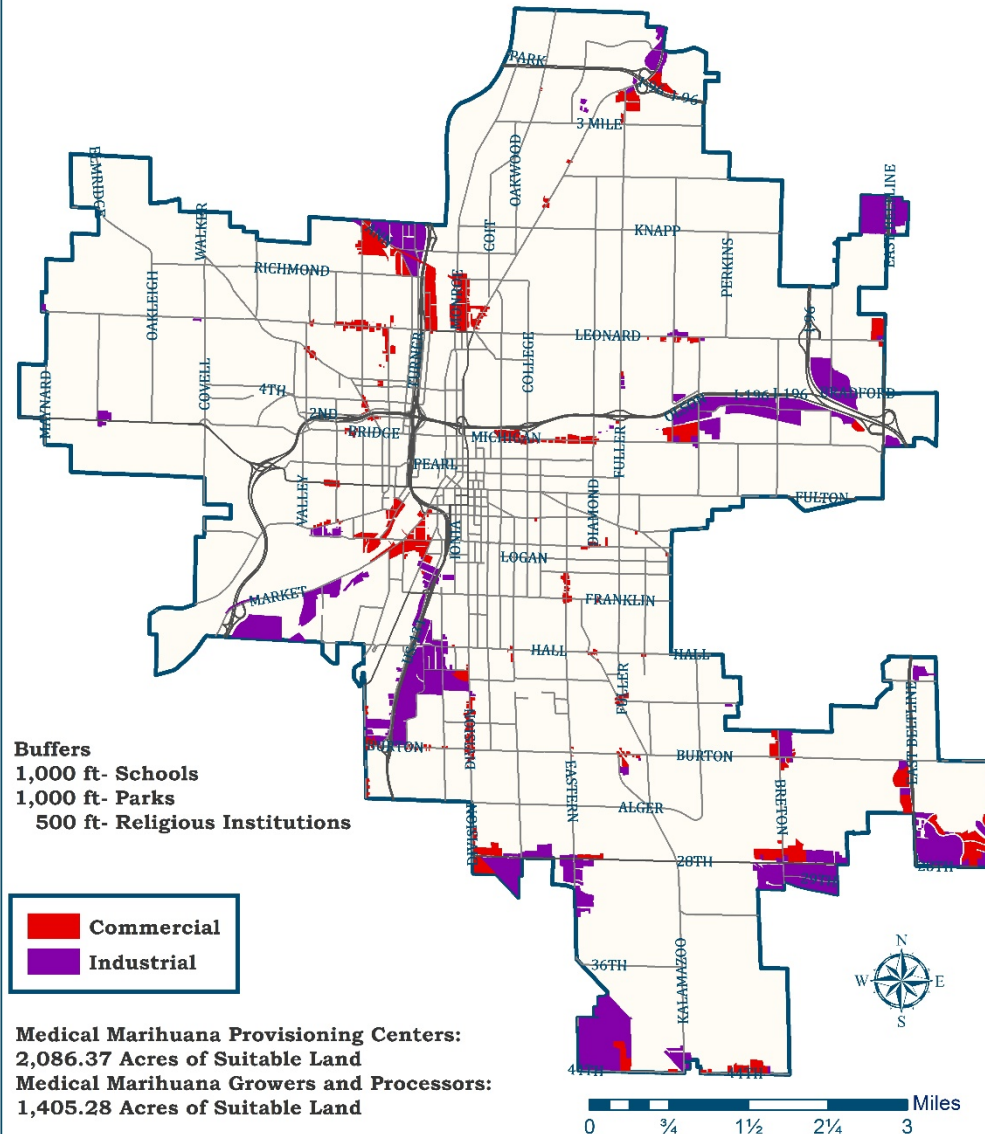
Phoenix

Table of Contents

Los Angeles, California Model

Medical Marihuana Provisioning Centers are allowed in both Commercial and Industrial Zone Districts.

Medical Marihuana Growers and Processors are allowed in the Industrial Zone District.

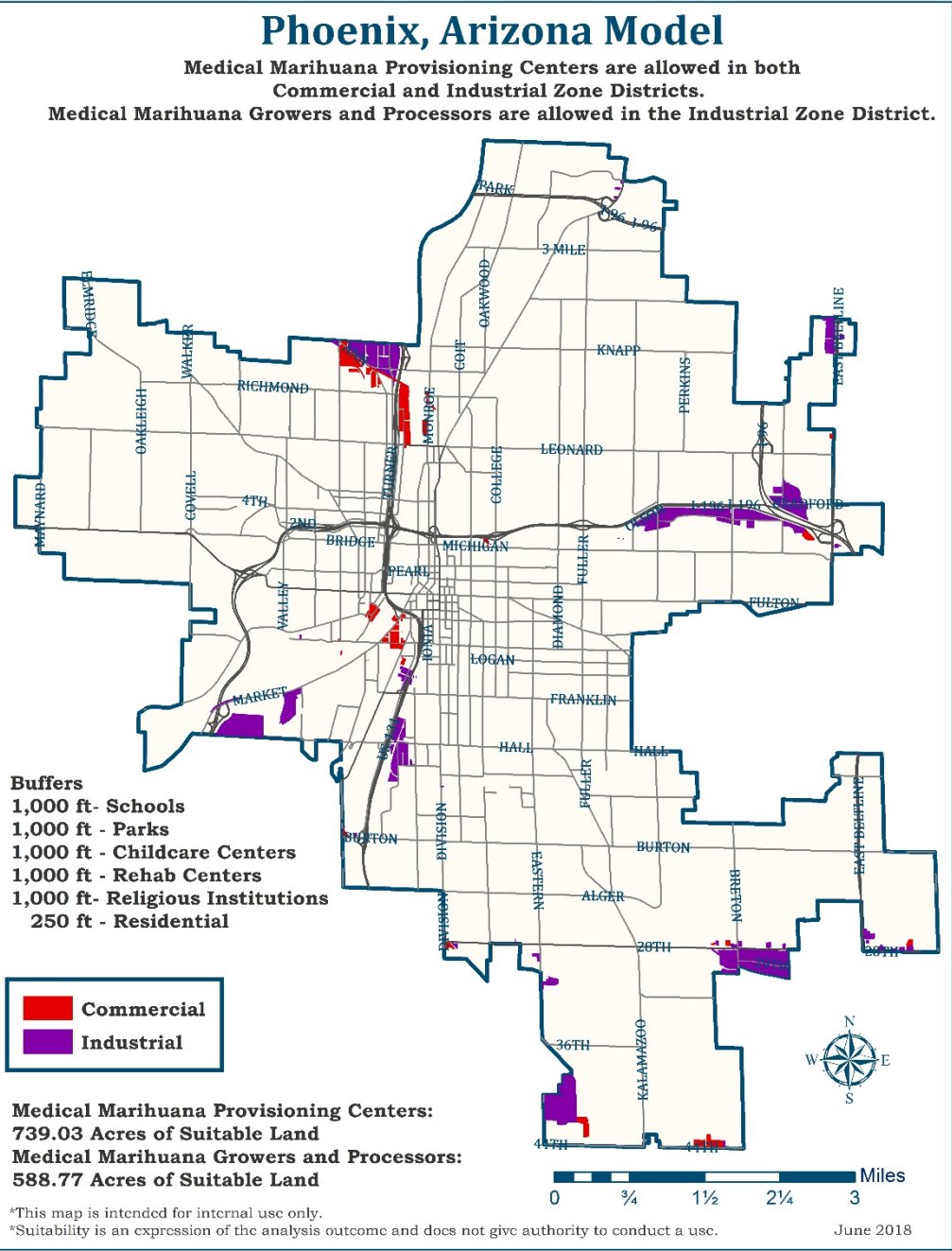


*This map is intended for internal use only.

*Suitability is an expression of the analysis outcome and does not give authority to conduct a use.

June 2018

Currently, Los Angeles has a ban on all Marihuana facilities in all zone districts. Currently, the code is being rewritten. Medical Marihuana dispensaries were allowed in Los Angeles with a conditional use permit, which is equivalent to a special land use. There are 1,000 foot buffers required from schools, playgrounds, parks, libraries, places of religious worship, child care facilities, and youth facilities. There is also a 1,000 foot buffer required between other facilities. Los Angeles zoning ordinance also states that the hours of operation shall not exceed 7:00am to 8:00pm. The area must be adequately lit and all graffiti and litter must be removed within 24 hours. Alcohol is not permitted on the premises. On-site consumption of products is allowed. Seating, restrooms and ventilation must be provided. It is also required that security systems, alarms, and cameras are installed. A security guard must be present during all business hours. Lastly, it is also required under conditional use that minors not be allowed on the premises, loitering be avoided and an emergency contact person's number be posted at all times. (Title 22.56.196 of the Los Angeles County Zoning Code)



The City of Phoenix utilizes larger buffers. This may be more suited for that geography, as population density is much lower. Phoenix has a population density of 2,929 people per square mile, where Grand Rapids, Ann Arbor, and Denver are between 4,050 and 4,250 people per square miles. In Phoenix, no medical Marihuana facility is allowed to be located within 5,280 feet of another facility. Also, facilities must not be located within 1,320 feet schools, parks, public community center, dependent care facilities, homeless shelters, youth community centers, or places of worship. Emissions of dust, fumes, vapors, or odors are not permitted. A survey of the property must be submitted to ensure compliance with all buffers. Medical Marihuana dispensers are also prohibited within 500 of residential zone districts. (Ordinance G-6151) For the purpose of this analysis, the distance buffers were lowered to 1,000 ft. on the case of 1,320 ft. and 250 ft. in the case of the 500 ft. Residential buffer.

Introduction

Comparison
Maps

Ann Arbor

Denver

Los Angeles

Phoenix

Table of
Contents

Equity Mapping Introduction

Race mapping allows decision makers the opportunity to see how different zoning restrictions and buffers influence concentrations minority population. To determine concentrated areas of minority population, the population of minority members by block group and the total population by block group were collected from 2010 census data. All block groups that contained 50% or higher combined minority populations were highlighted in the equity maps. When referring to minority groups, African American, Hispanic, Asian, and Native Americans (AHANA) are included.

Suitable Land in AHANA Block Groups

	Total	AHANA	Percentage
Ann Arbor Model	3,395.00	1,507.04	44.39%
Denver Model	2,485.08	1,184.01	47.64%
Los Angeles Model	2,086.37	909.20	43.58%
Phoenix Model	739.03	314.59	42.57%

Suitable Land in Vulnerable Areas

	Total	VA*	Percentage
Ann Arbor Model	3,395.00	1,358.77	40.02%
Denver Model	2,485.08	996.29	40.09%
Los Angeles Model	2,086.37	867.73	41.59%
Phoenix Model	739.03	333.76	45.16%

* VA: Vulnerable Areas

Employment

National unemployment rate in 2015 was 5.7%, while the overall unemployment rate for Grand Rapids in 2015 was 7.5%. Within Grand Rapids, average unemployment rates by block group fluctuate significantly. Some block groups had rates as low as 3%, while others had unemployment levels as high as 36%. For establishing vulnerable areas, all block groups with an average unemployment rate at or higher than the national average (5.7%) were included.

Education

Educational attainment can affect health, living conditions, and ability to navigate social structures. Lower education attainment can limit job opportunities and prohibit upward mobility. Grand Rapids block groups range in mean educational attainment from graduate degrees to middle school level. Block groups that were classified as vulnerable areas were block groups that had a mean educational attainment of some college and lower.

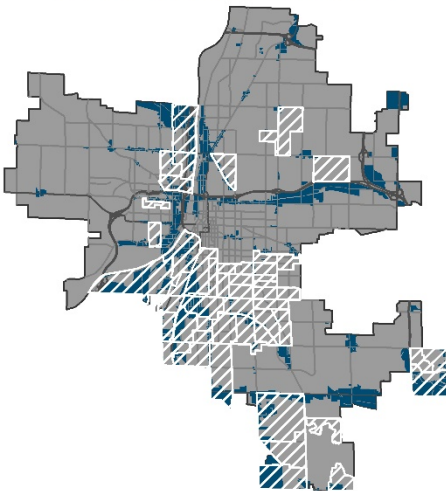
Housing

Home ownership is an important avenue for families and individuals to gain wealth, and maintain security and stability. Block groups range from home ownership percentages in the teens to home ownership percentages in the high 80s. Block groups that had home ownership below 50% were classified as vulnerable areas.

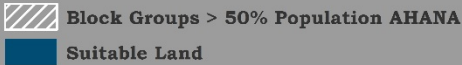
Income

Income is the avenue by which an individual is able to care for themselves and their family. The 2015 median household income for Grand Rapids was \$73,026. The median household income for a family for 4 was \$66,800. Block groups that were classified as vulnerable areas were those that had an average household income of 50% or lower than the average family of 4 household income (\$33,400).

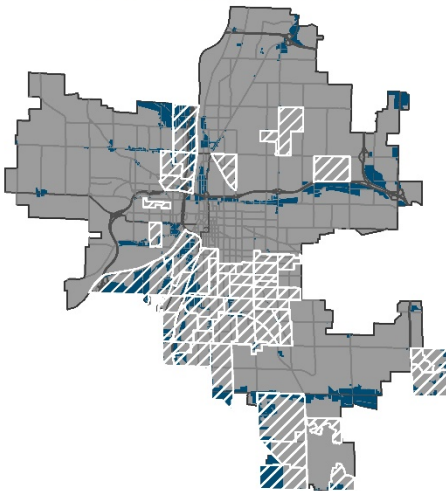
Ann Arbor Model



AHANA Equity Map

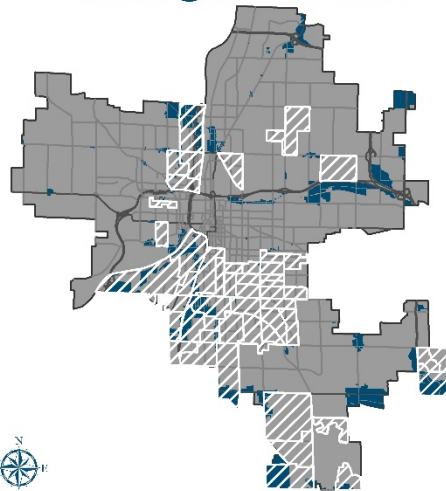


Denver Model



	Suitable Land in AHANA Block Groups		
	Total	AHANA	Percentage
Ann Arbor Model	3,395.00	1,507.04	44.39%
Denver Model	2,485.08	1,184.01	47.64%
Los Angeles Model	2,086.37	909.20	43.58%
Phoenix Model	739.03	314.59	42.57%

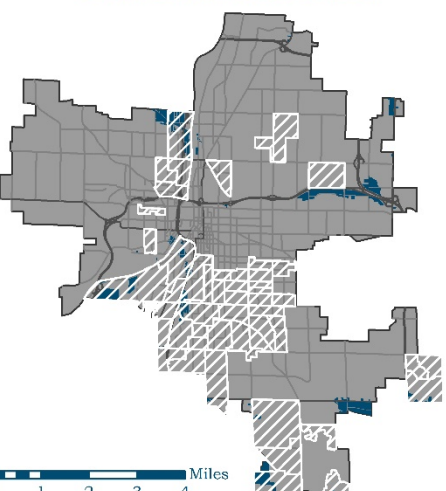
Los Angeles Model



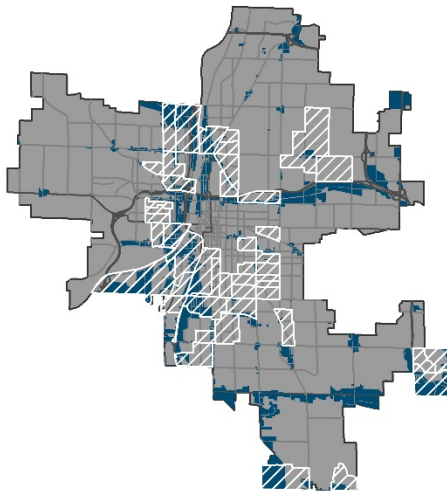
*This map is intended for internal use only.

June 2018

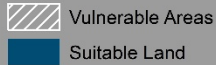
Phoenix Model



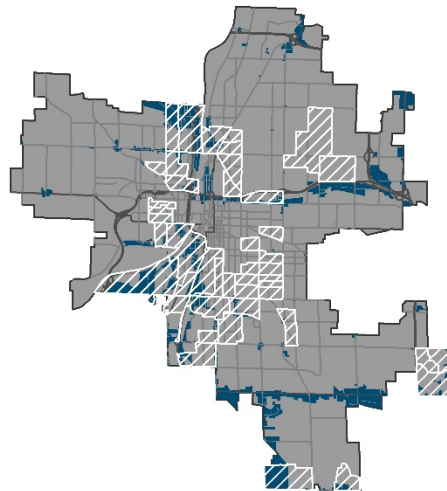
Ann Arbor Model



Vulnerable Areas Map



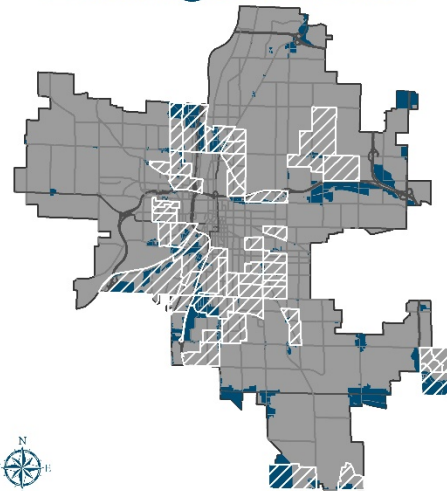
Denver Model



	Suitable Land in Vulnerable Areas		
	Total	VA*	Percentage
Ann Arbor Model	3,395.00	1,358.77	40.02%
Denver Model	2,485.08	996.29	40.09%
Los Angeles Model	2,086.37	867.73	41.59%
Phoenix Model	739.03	333.76	45.16%

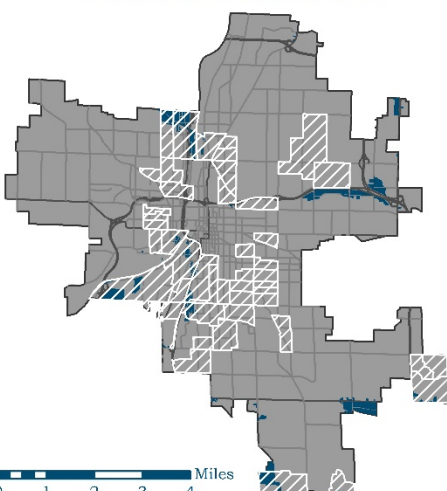
* VA: Vulnerable Areas

Los Angeles Model



*This map is intended for internal use only.

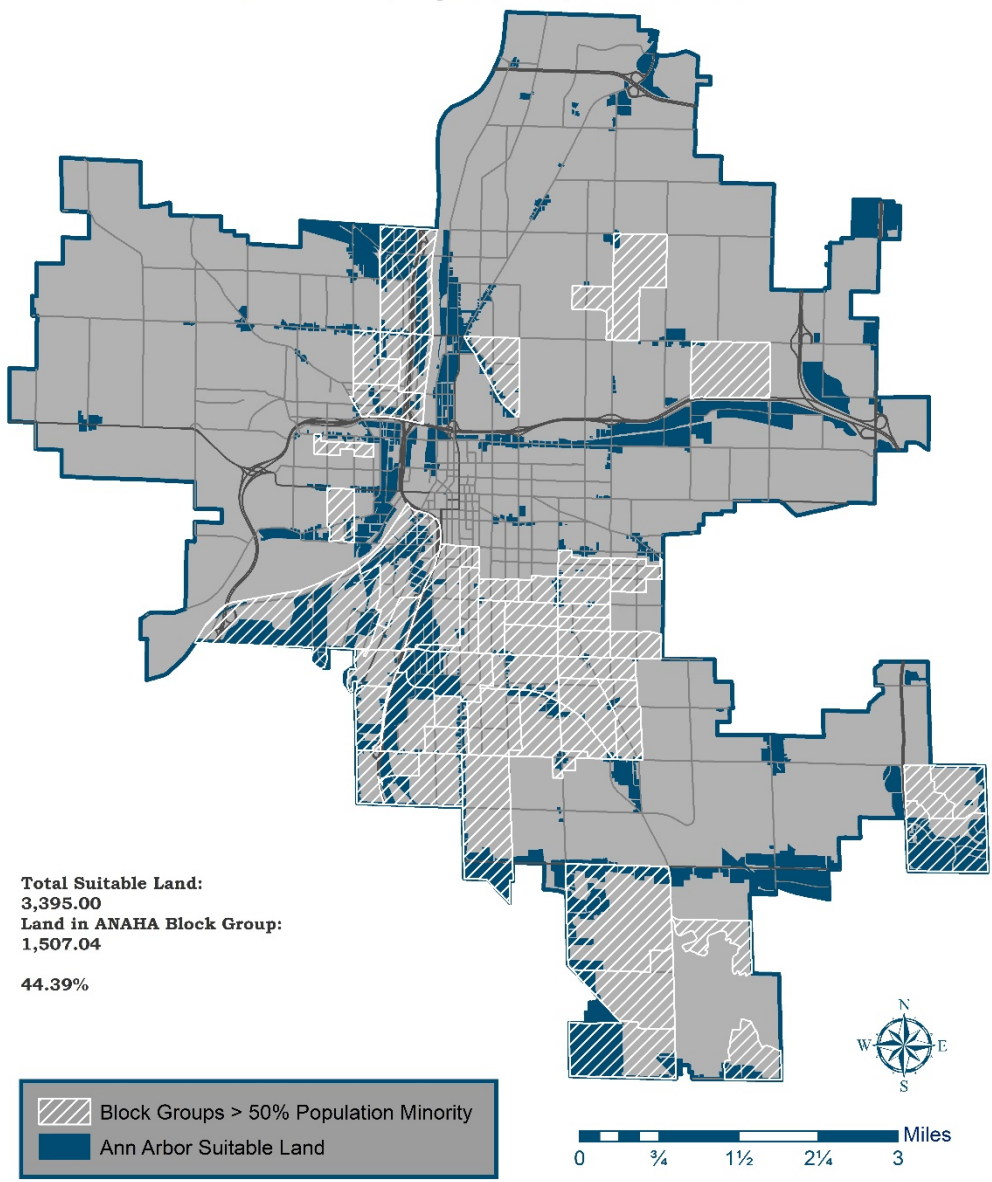
Phoenix Model



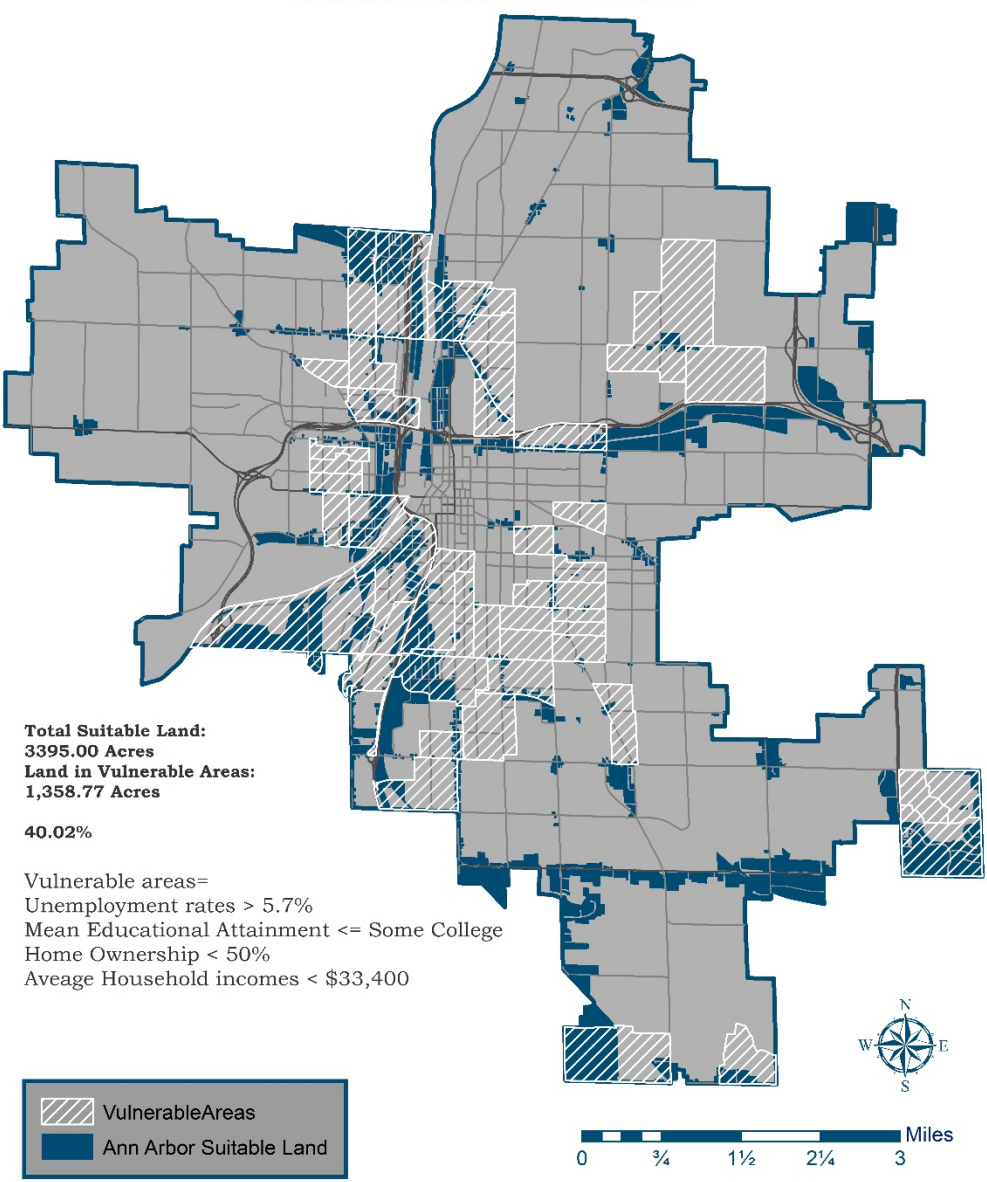
June 2018

Ann Arbor Model Equity Map

The highlighted block groups signify areas where the population is 50% or more African American, Hispanic, Asian, and Native American.



Ann Arbor Model Equity Map Vulnerable Areas



Introduction

Comparison
Maps

Ann Arbor

Denver

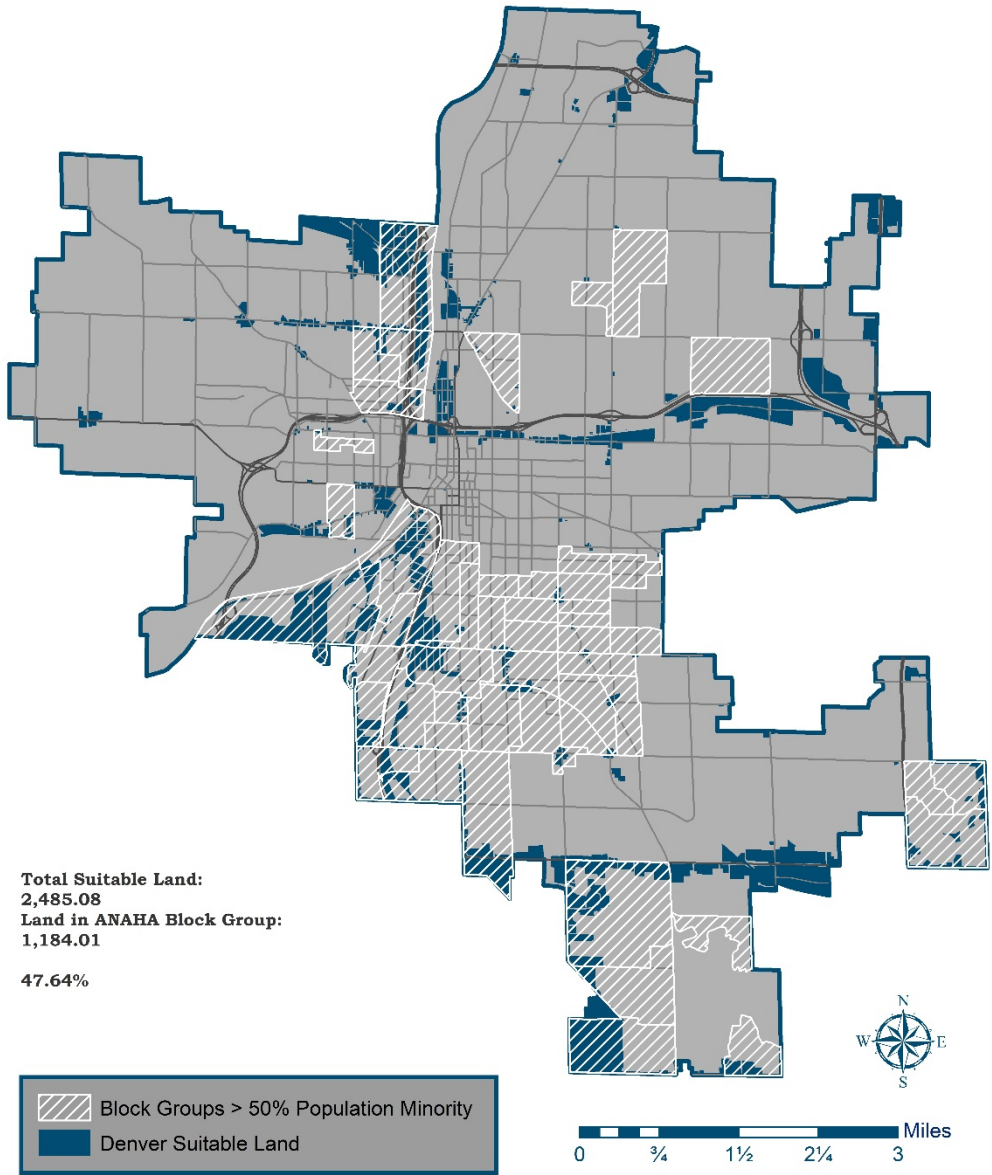
Los Angeles

Phoenix

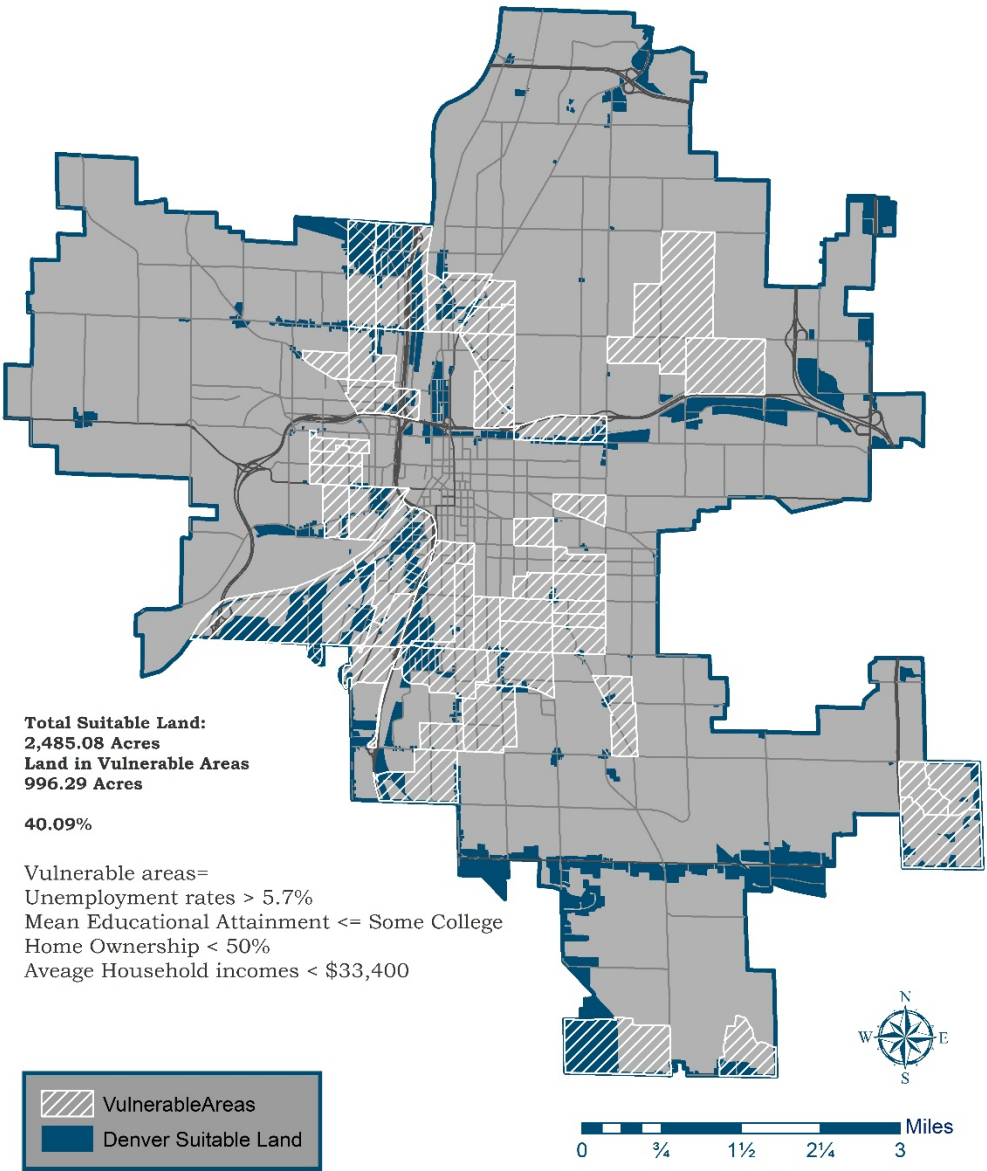
Table of
Contents

Denver Model Equity Map

The highlighted block groups signify areas where the population is 50% or more African American, Hispanic, Asian, and Native American.

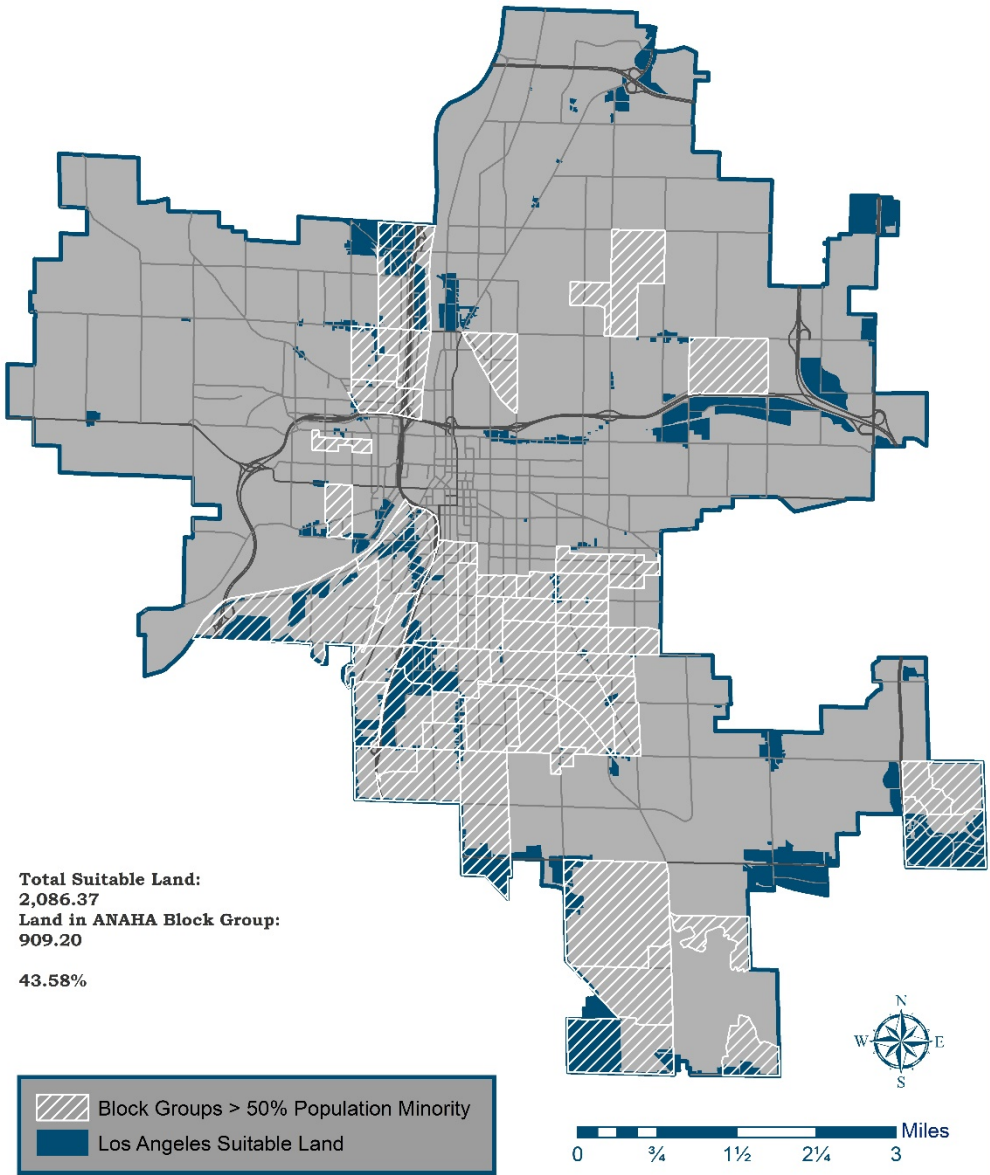


Denver Model Equity Map Vulnerable Areas

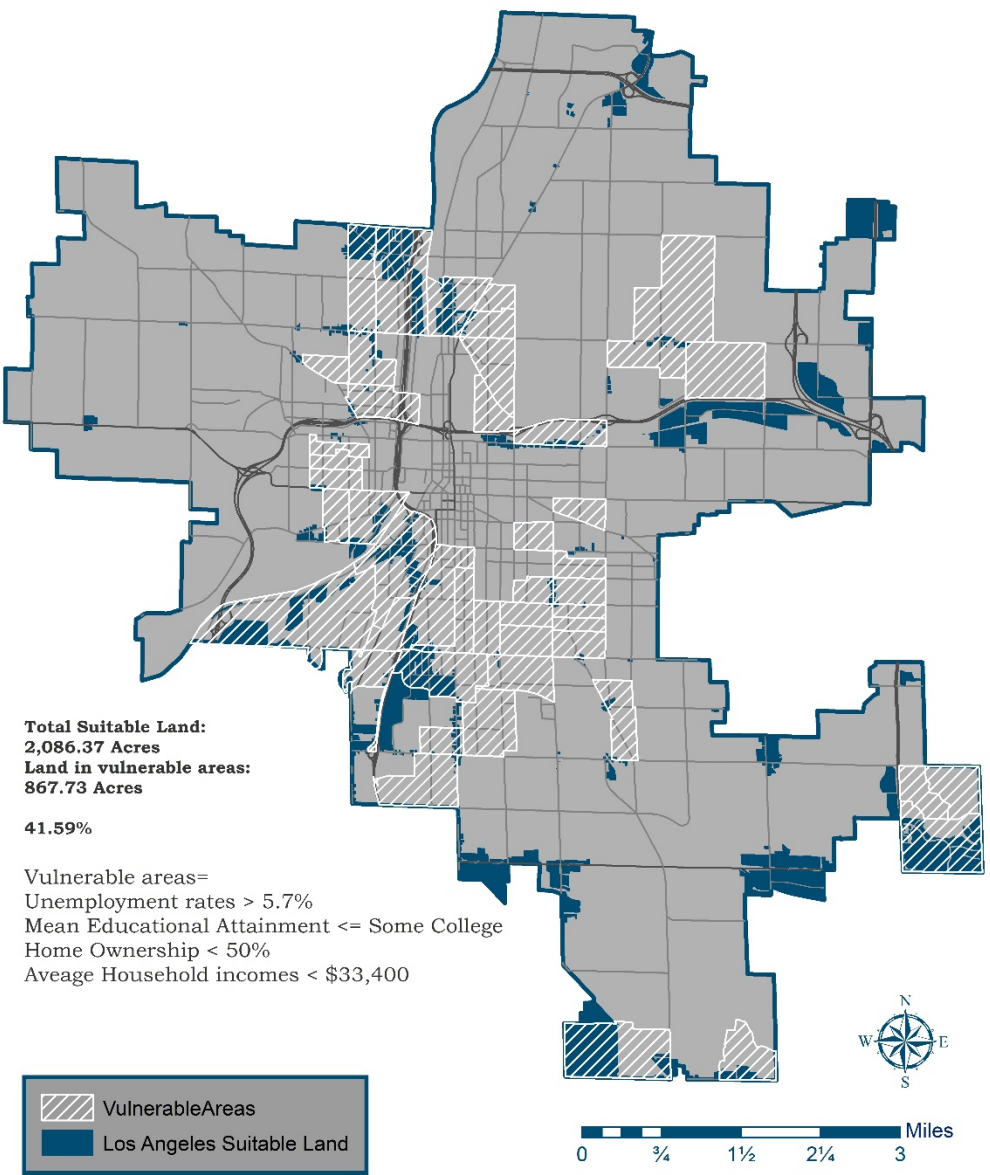


Los Angeles Model Equity Map

The highlighted block groups signify areas where the population is 50% or more African American, Hispanic, Asian, and Native American.



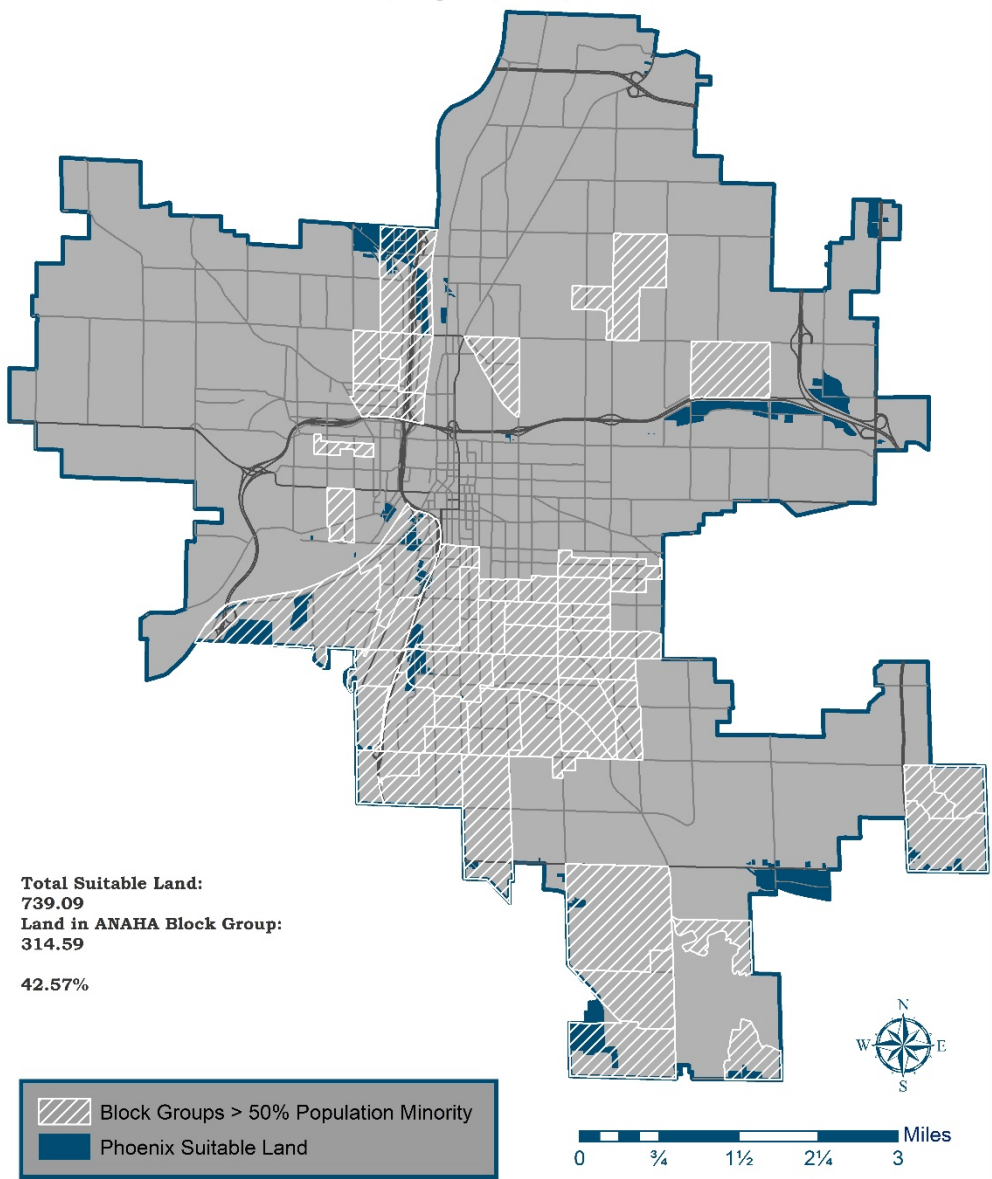
Los Angeles Model Equity Map Vulnerable Areas



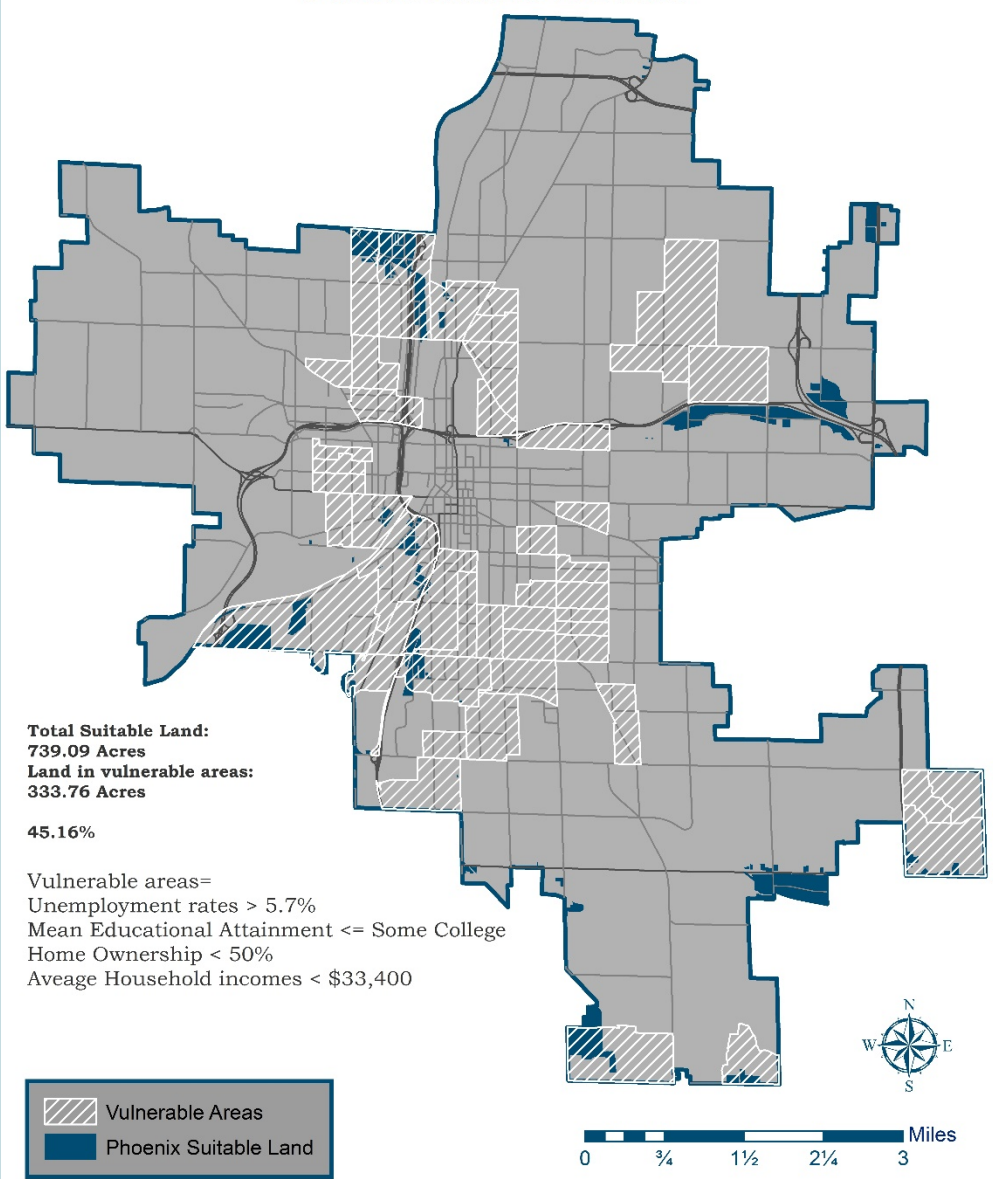
- Introduction
- Comparison Maps
- Ann Arbor
- Denver
- Los Angeles
- Phoenix
- Table of Contents

Phoenix Model Equity Map

The highlighted block groups signify areas where the population is 50% or more African American, Hispanic, Asian, and Native American.

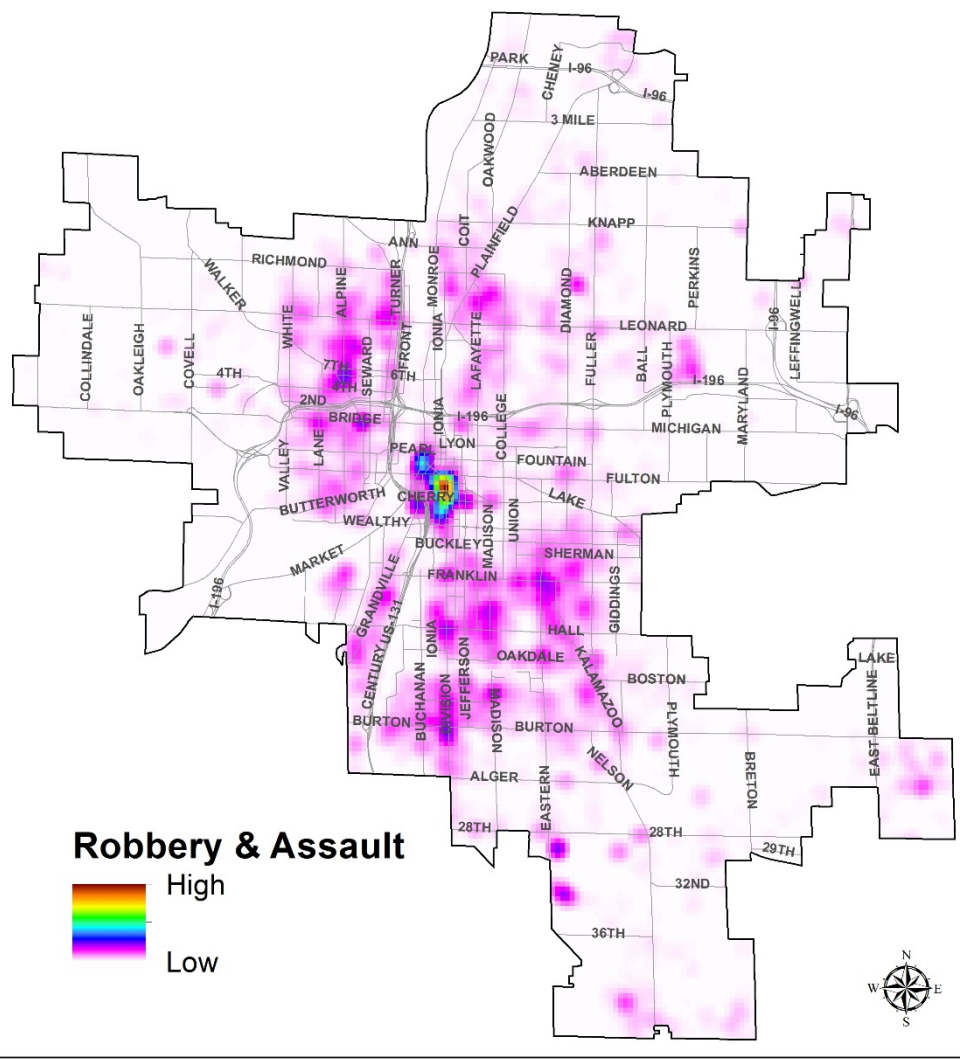


Pheonix Model Equity Map Vulnerable Areas

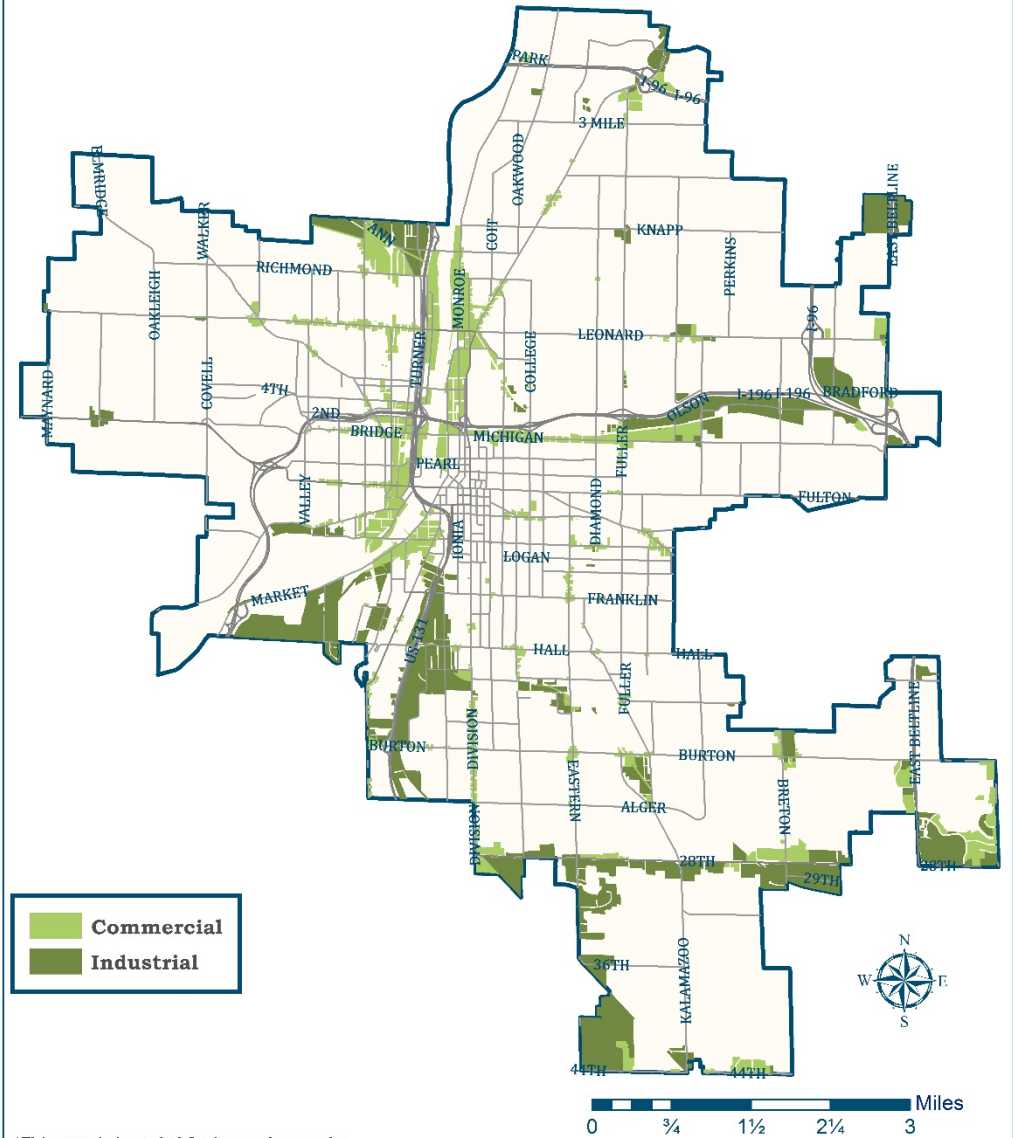


Grand Rapids Crime Data

Offenses from 2014 through 2016



Suitable Land Outside of Drug Free School Zone



*This map is intended for internal use only.
*Suitability is an expression of the analysis outcome and does not give authority to conduct a use.
June 2018

Other Factors

Robbery & Assault

Violent Crime

Property Crime

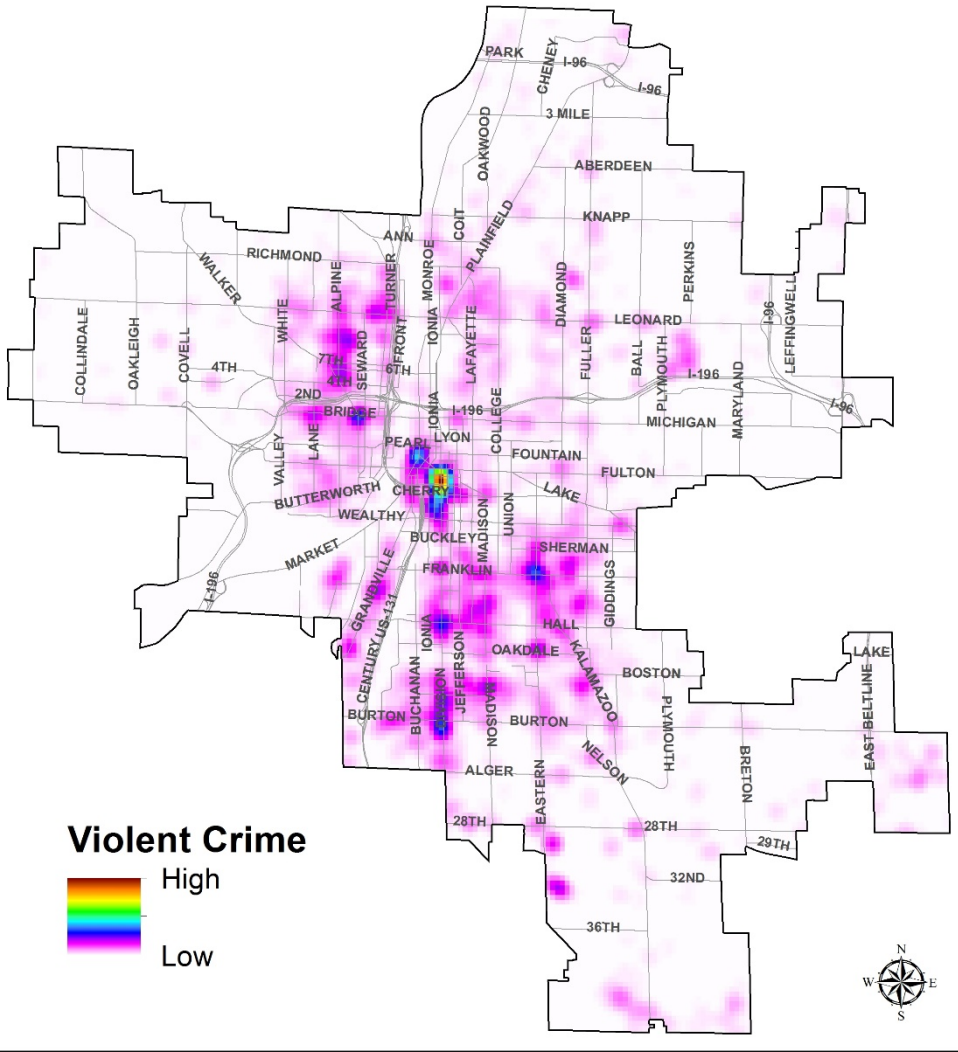
Vital Streets

Transit Lines

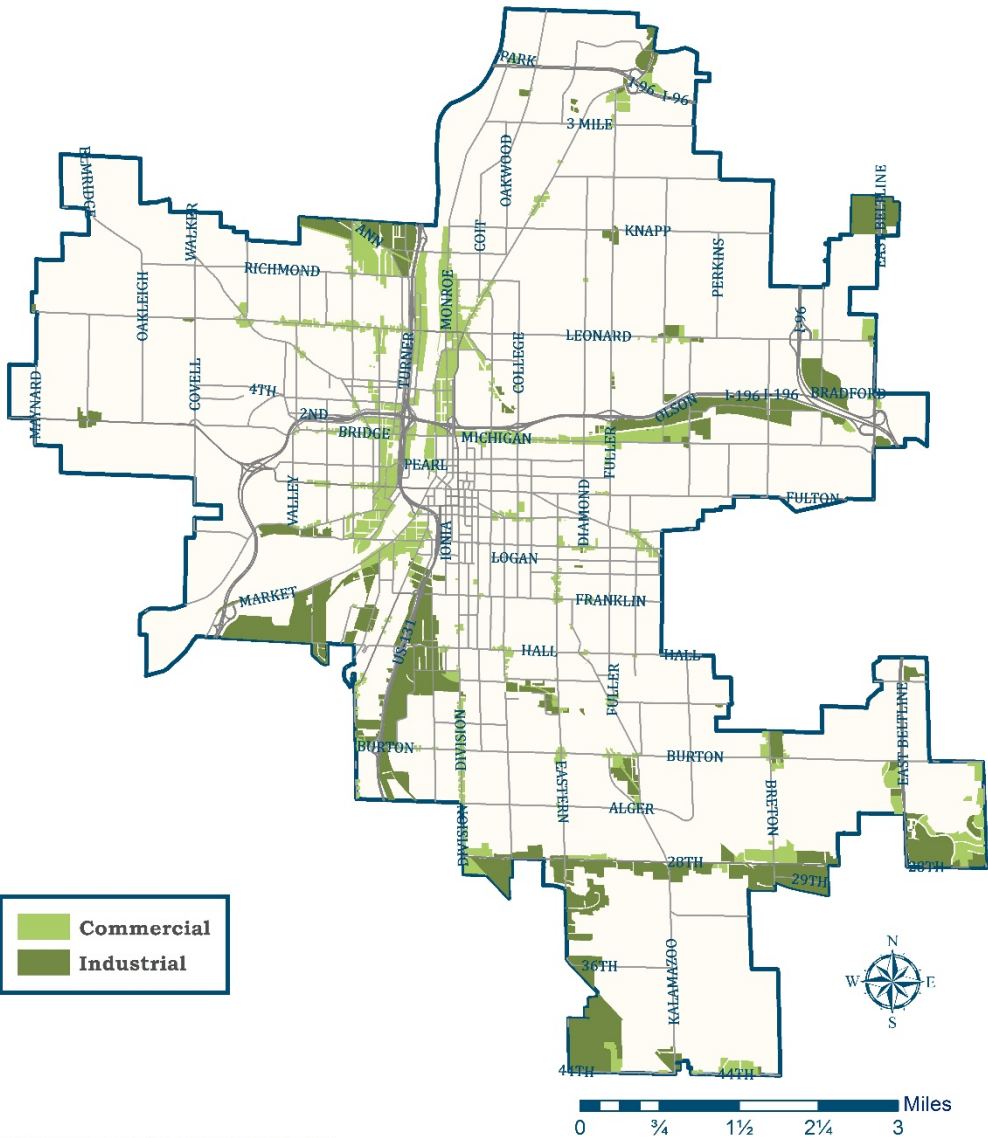
Table of Contents

Grand Rapids Crime Data

Offenses from 2014 through 2016



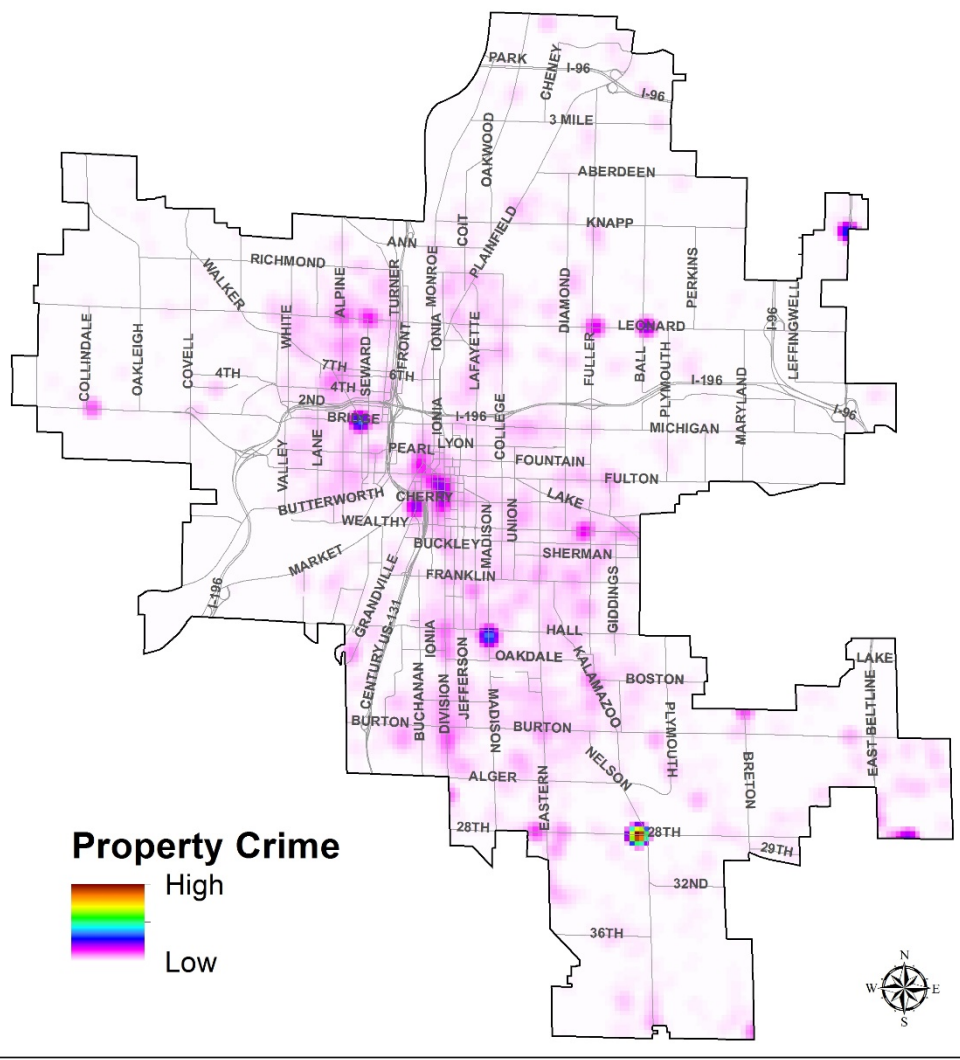
Suitable Land Outside of Drug Free School Zone



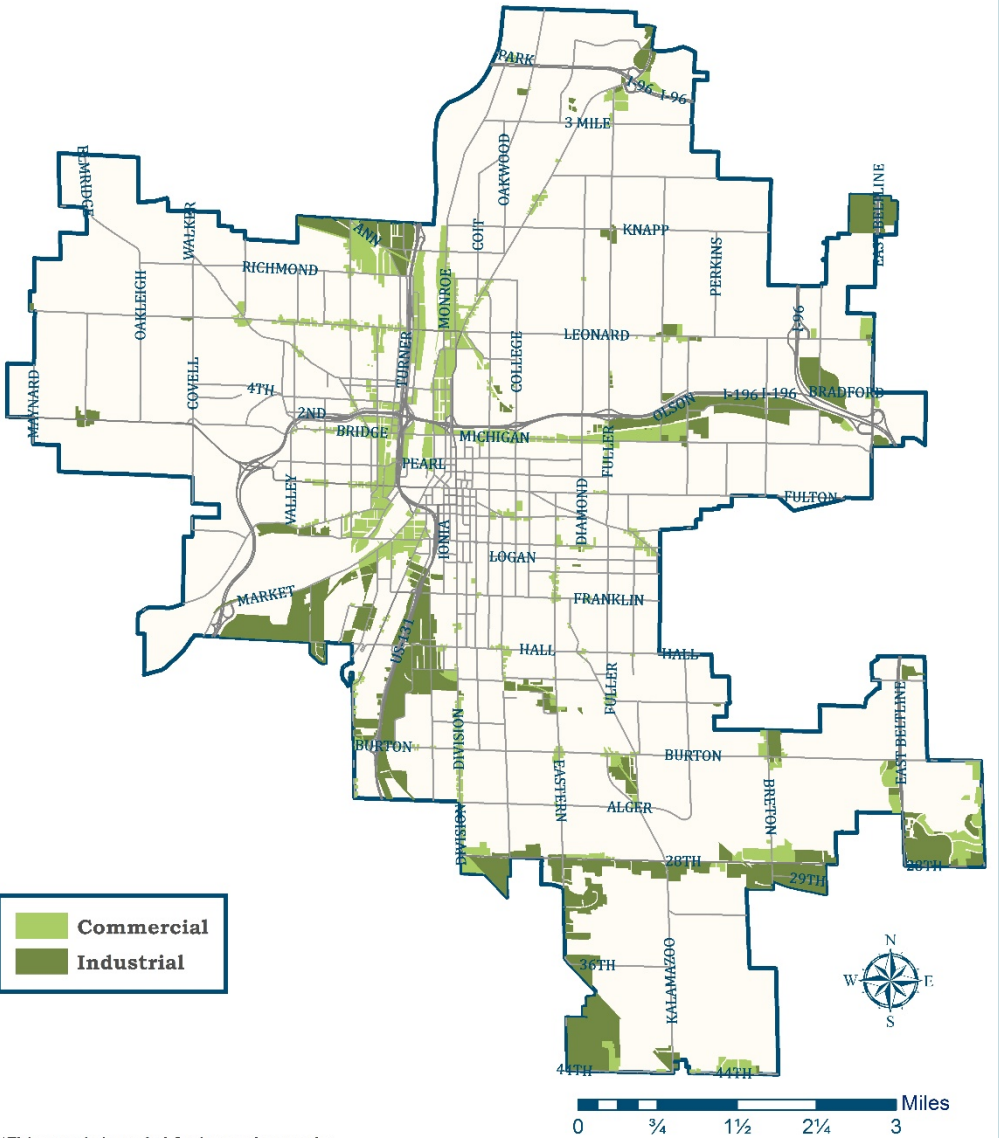
*This map is intended for internal use only.
*Suitability is an expression of the analysis outcome and does not give authority to conduct a use. June 2018

Grand Rapids Crime Data

Offenses from 2014 through 2016



Suitable Land Outside of Drug Free School Zone



*This map is intended for internal use only.
*Suitability is an expression of the analysis outcome and does not give authority to conduct a use. June 2018

Other Factors

Robbery & Assault

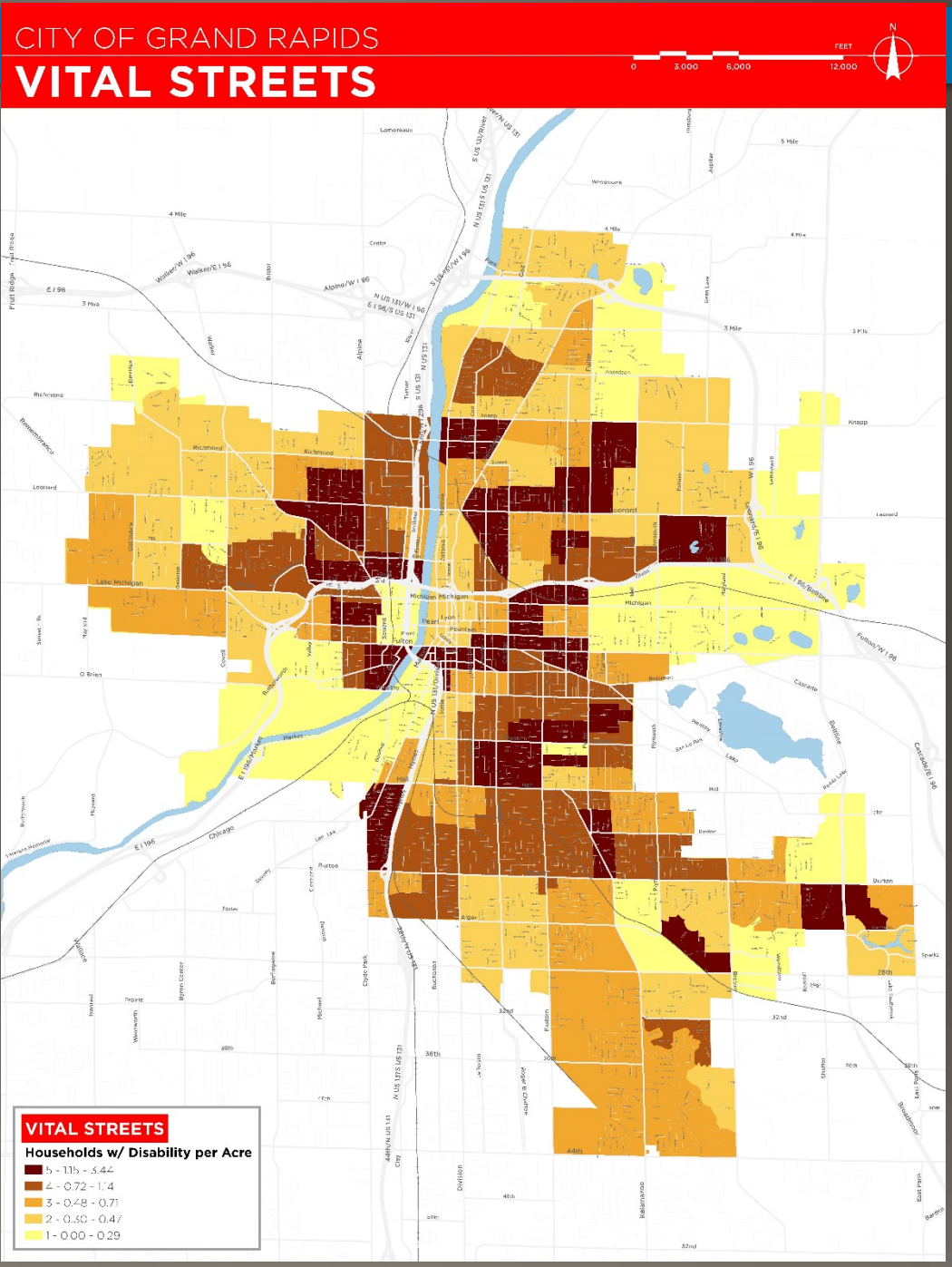
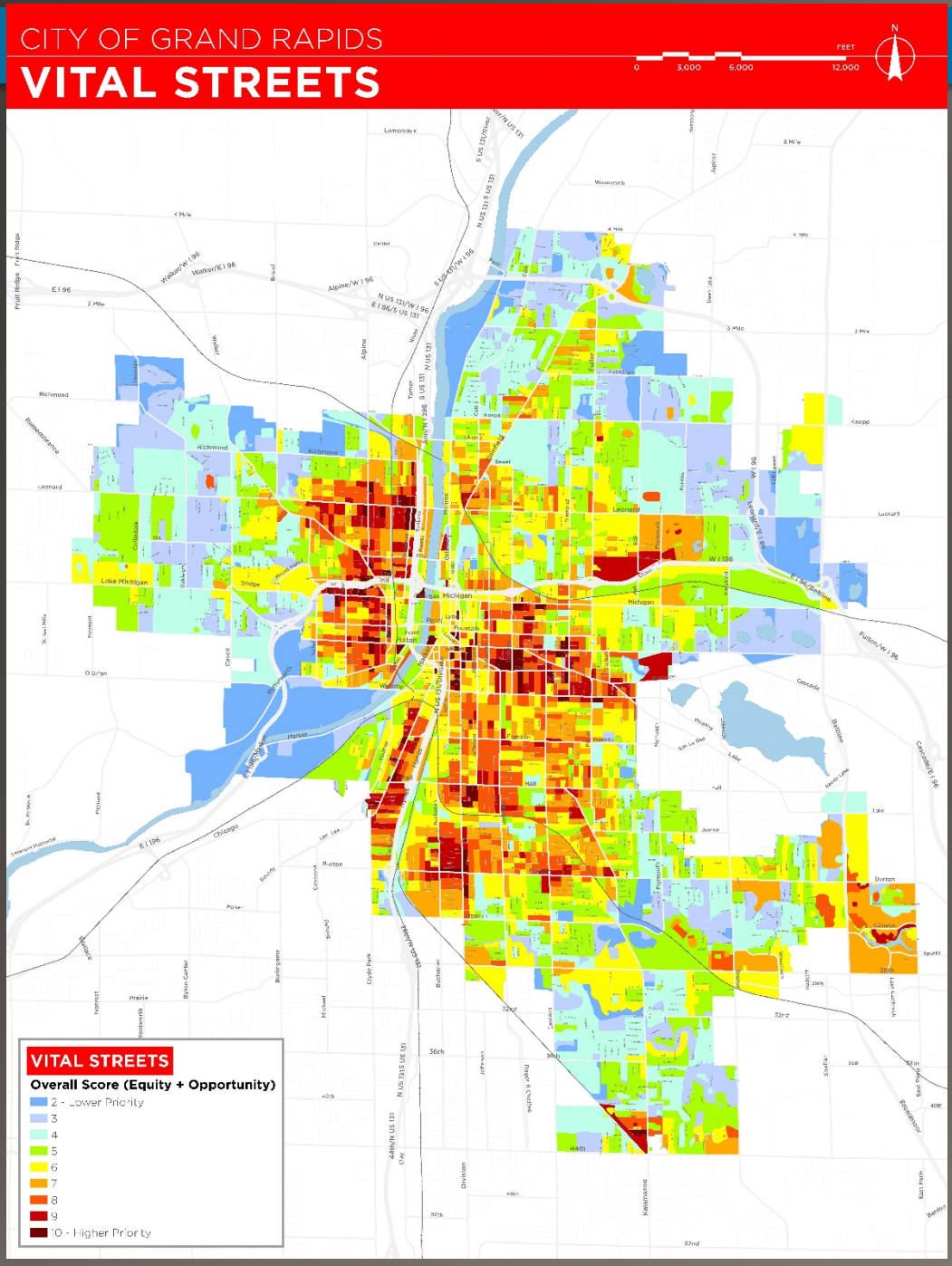
Violent Crime

Property Crime

Vital Streets

Transit Lines

Table of Contents



Other Factors

Robbery & Assault

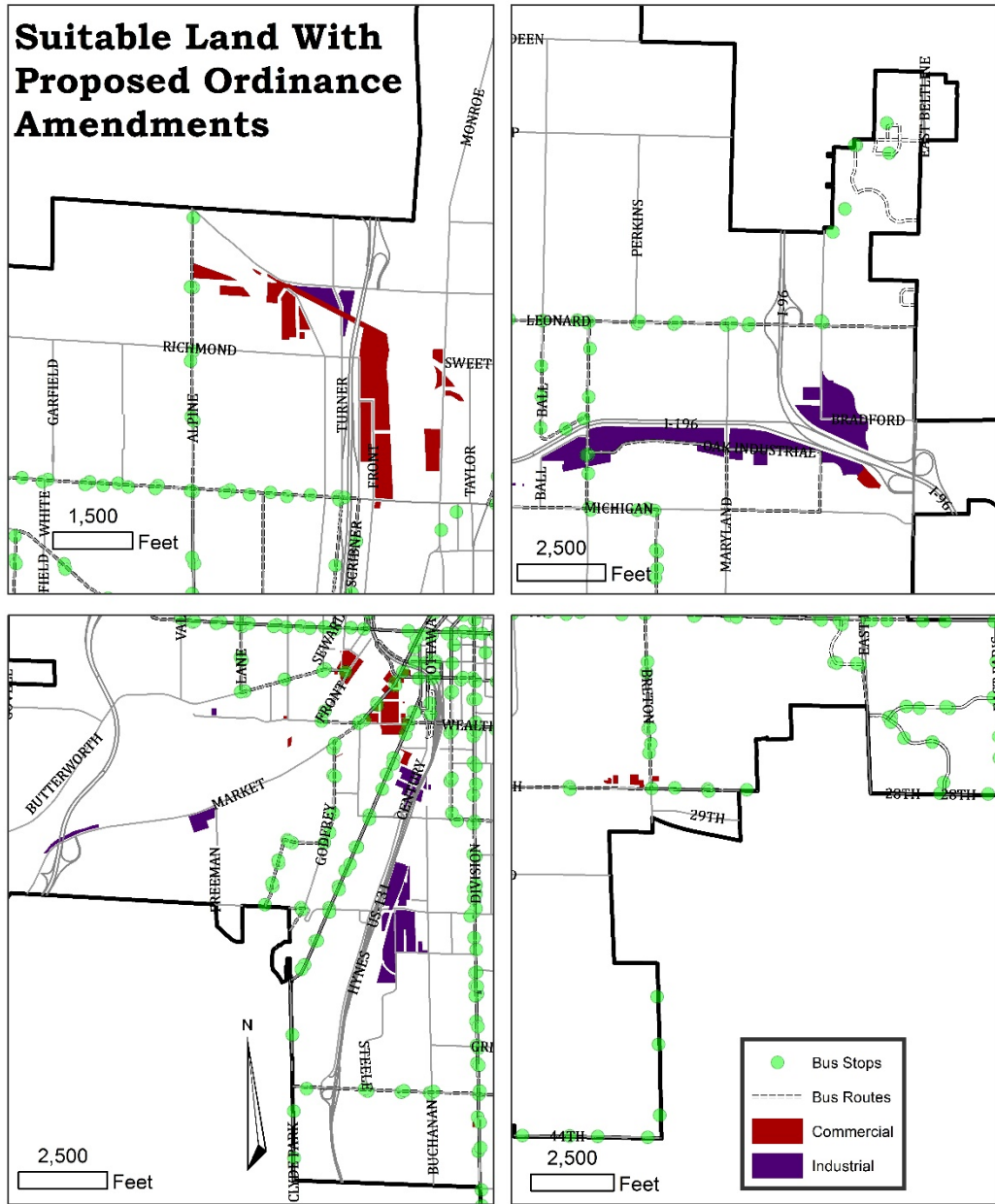
Violent Crime

Property Crime

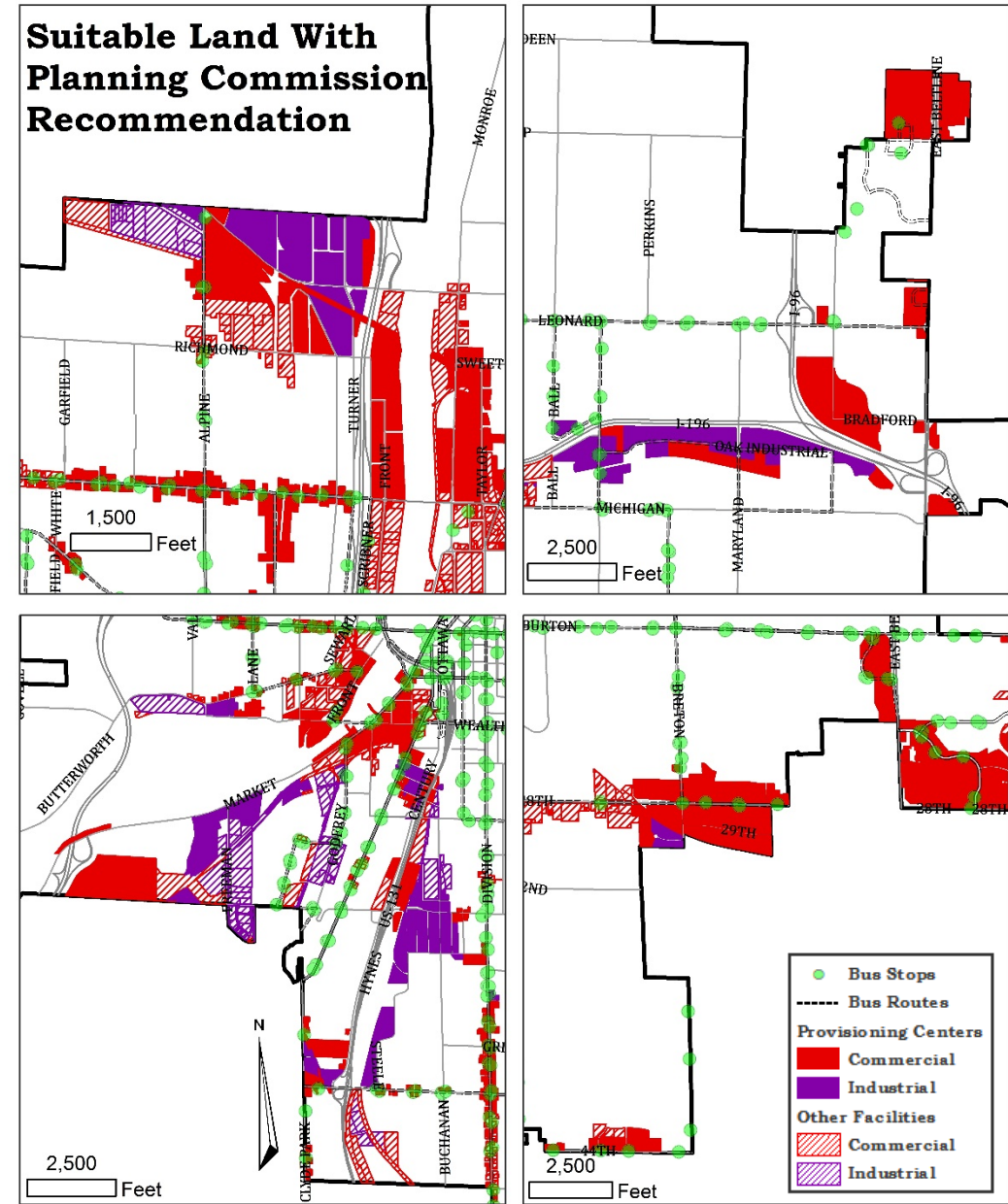
Vital Streets

Transit Lines

Table of Contents



*This map is intended for internal use only.
*Suitability is an expression of the analysis outcome and does not give authority to conduct a use.



*This map is intended for internal use only.
*Suitability is an expression of the analysis outcome and does not give authority to conduct a use.