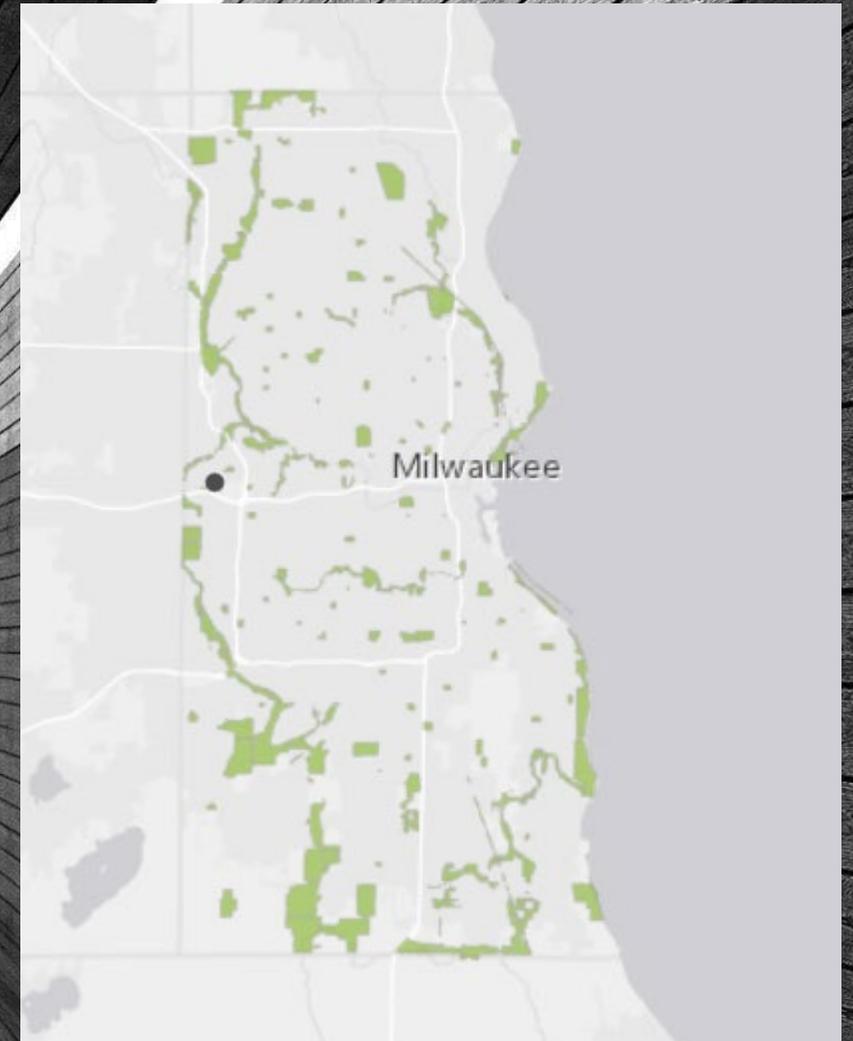


Milwaukee County

Parks Equity Index

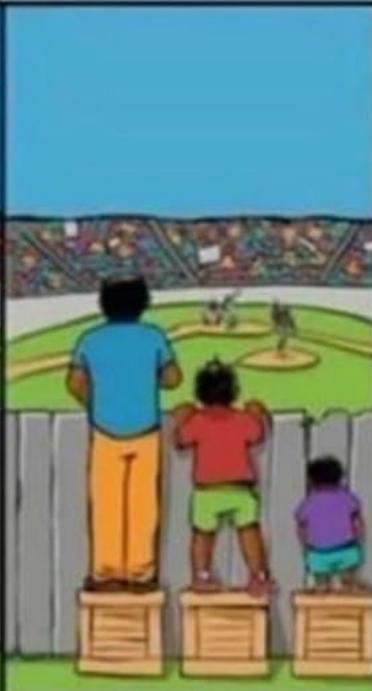
2023 Approach & Updates





REALITY

One gets **more than** is needed, while the other gets **less than** is needed. Thus, a huge disparity is created.



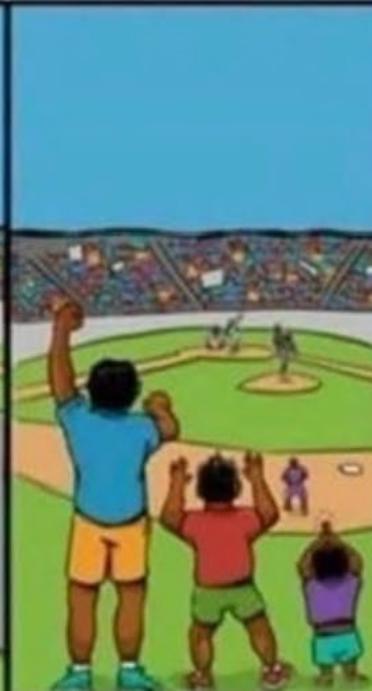
EQUALITY

The assumption is that **everyone benefits from the same supports**. This is considered to be equal treatment.



EQUITY

Everyone gets the support they need, which produces equity.



JUSTICE

All 3 can see the game without supports or accommodations because **the cause(s) of the inequity was addressed**. The systemic barrier has been removed.

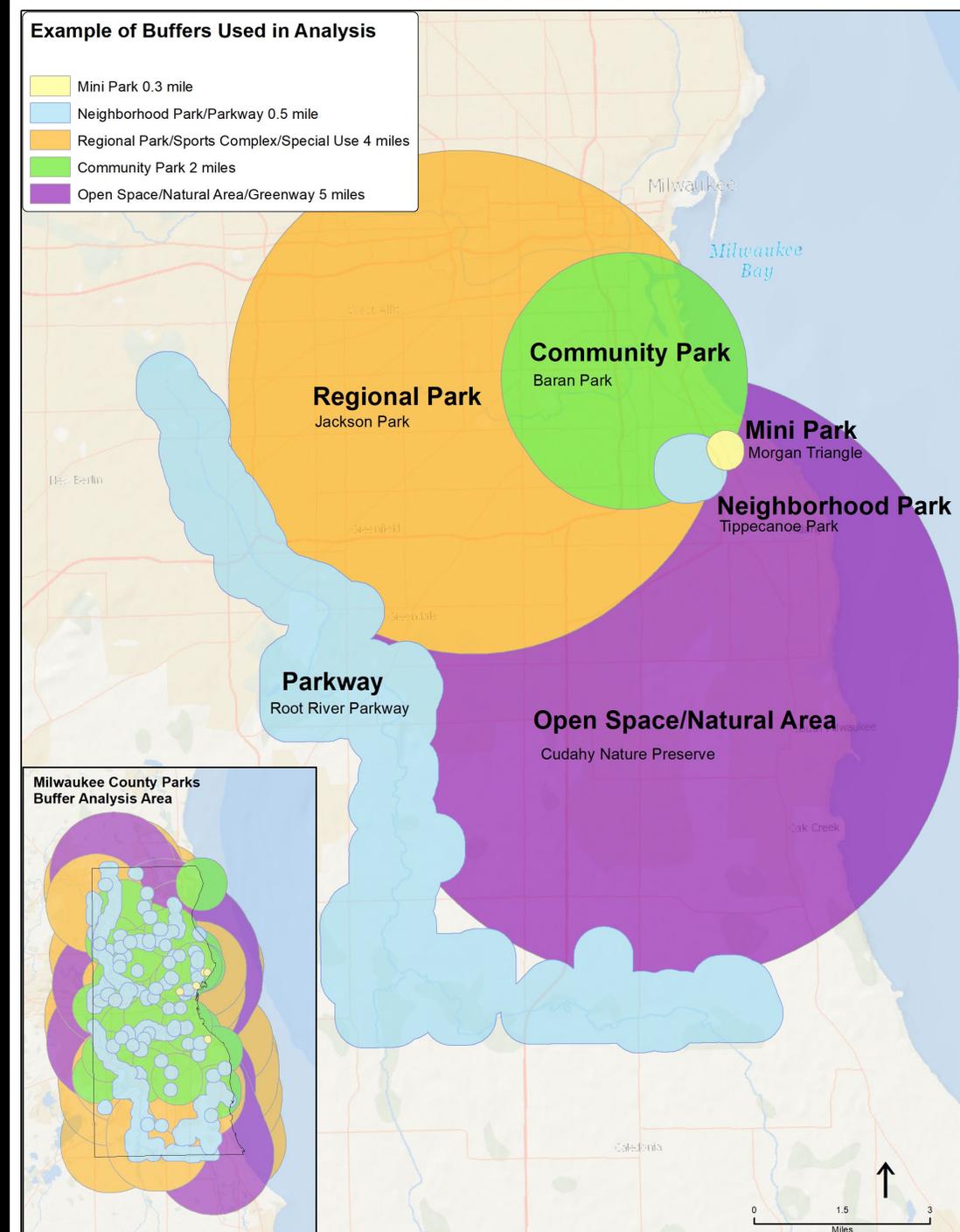


INCLUSION

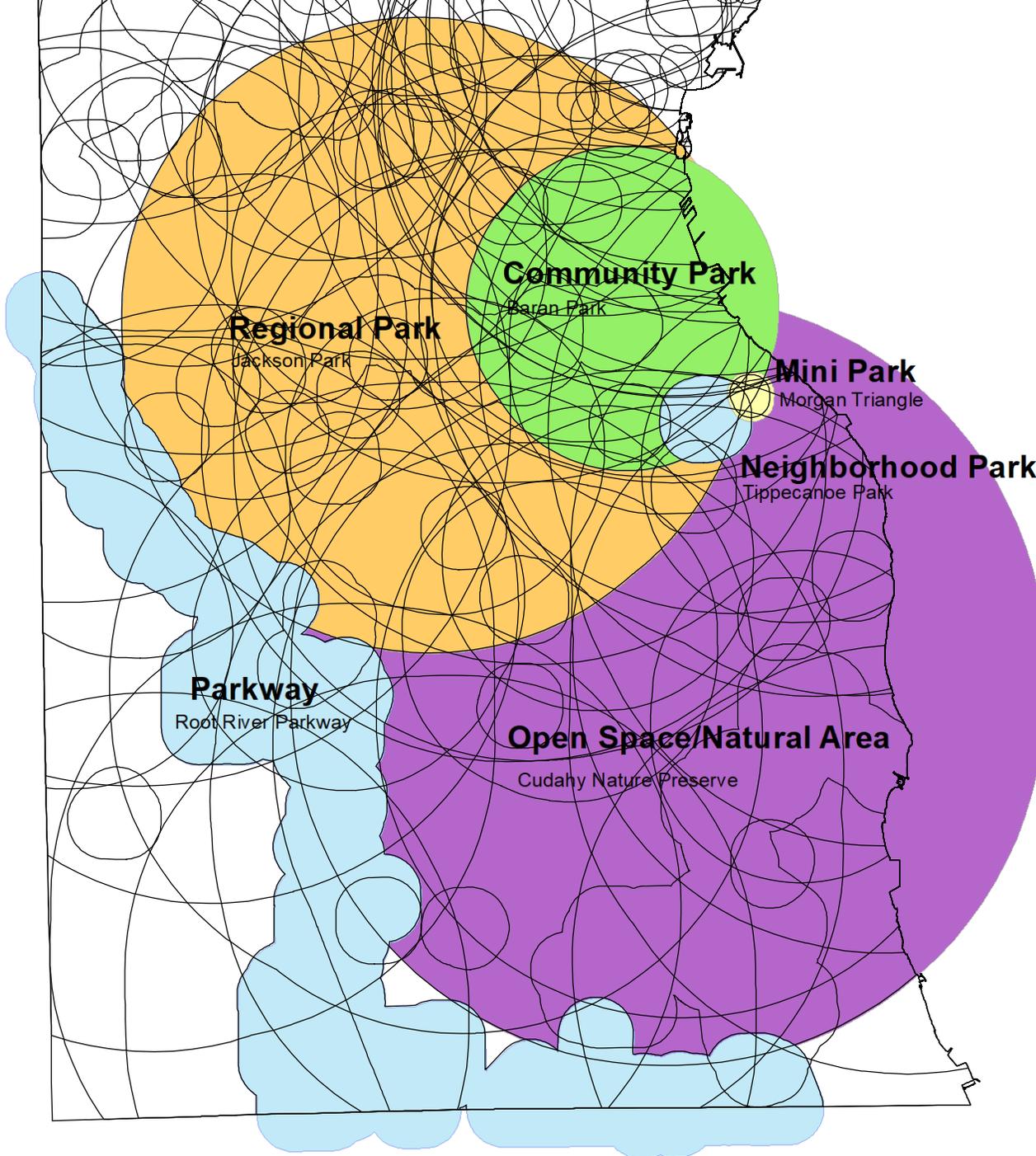
Everyone is **INCLUDED** in the game. **No one** is left on the outside; we didn't only remove the barriers keeping people out, we made sure they were valued & involved.

Park Typology - 2050 Parks and Open Space Plan

- **Regional Park** - Regional parks serve several communities and residents are predominantly natural resource based. 100 acres or more, Service radius: Four miles or greater.
- **Community Park** - A community park is accessible to multiple neighborhoods and focus on meeting community-based recreational needs while preserving unique landscapes and open spaces. 25 to 60 acres; may be up to 100 acres. Service radius: Two miles.
- **Neighborhood Park** - A neighborhood park may be defined by its use and facilities and may serve as the recreational and social focus of adjoining neighborhoods, contributing to their distinct identity. Three to 10 acres; occasionally smaller. Service radius: 0.5 mile.
- **Mini Park** - A mini park is a small site located in a dense/urban area with limited open space and recreational facilities. 2 acres or smaller; determined by availability of open land. Service radius: one-quarter to one-half mile.
- **Sports Complex** - A may be single-focused or multi-focused, include indoor and/or outdoor facilities, and may serve the recreational needs of youth and adults. Preferably 40+ acres for stand-alone complex. Service radius: Determined by community demand.
- **Special Use Facility** - A special use facility usually serves a single purpose. Special use facilities may be located inside another park or open space site and generally fall into three categories: historic/cultural/social sites, golf courses, and indoor or outdoor recreation facilities.
- **Parkways** - A parkway is a linear site featuring a roadway and a natural resource corridor, most often along major rivers and streams that connect communities, parks, and recreational and cultural components. A typical width of at least 200 feet, including the roadway and adjacent natural features.
- **Greenways** - A greenway is a narrow trail right-of-way that links neighborhoods, recreation facilities, attractions, and natural areas, or other park and open space sites and facilities. A typical width of at least 30 feet of unencumbered land. May include 10-foot-wide urban trail to support pedestrian/bicycle use.
- **Open Space/Natural Areas** - Open space/natural areas, undeveloped aside from any natural or paved trails, contain natural resources that can be managed for recreational and educational opportunities and for conservation benefits, such as protecting endangered species, wildlife habitat, and water quality.

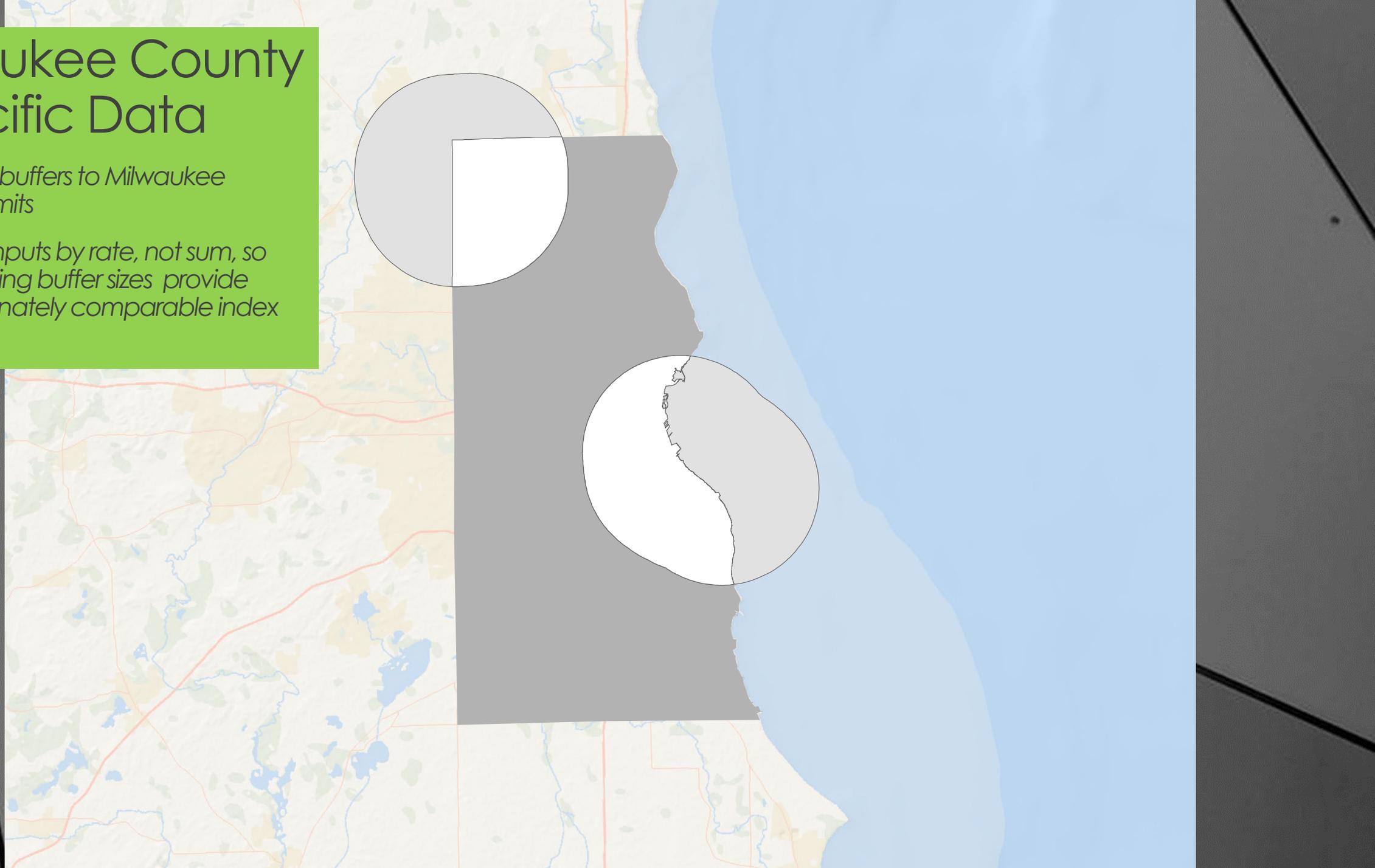


Buffer Overlays by Park Typology



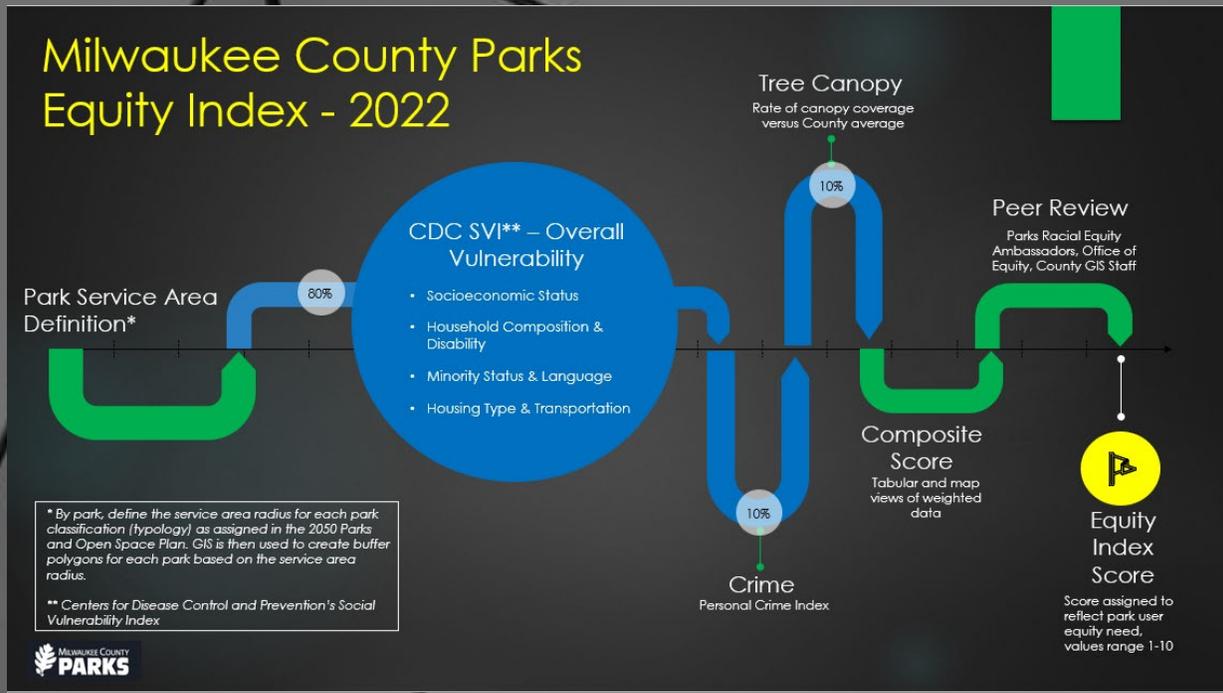
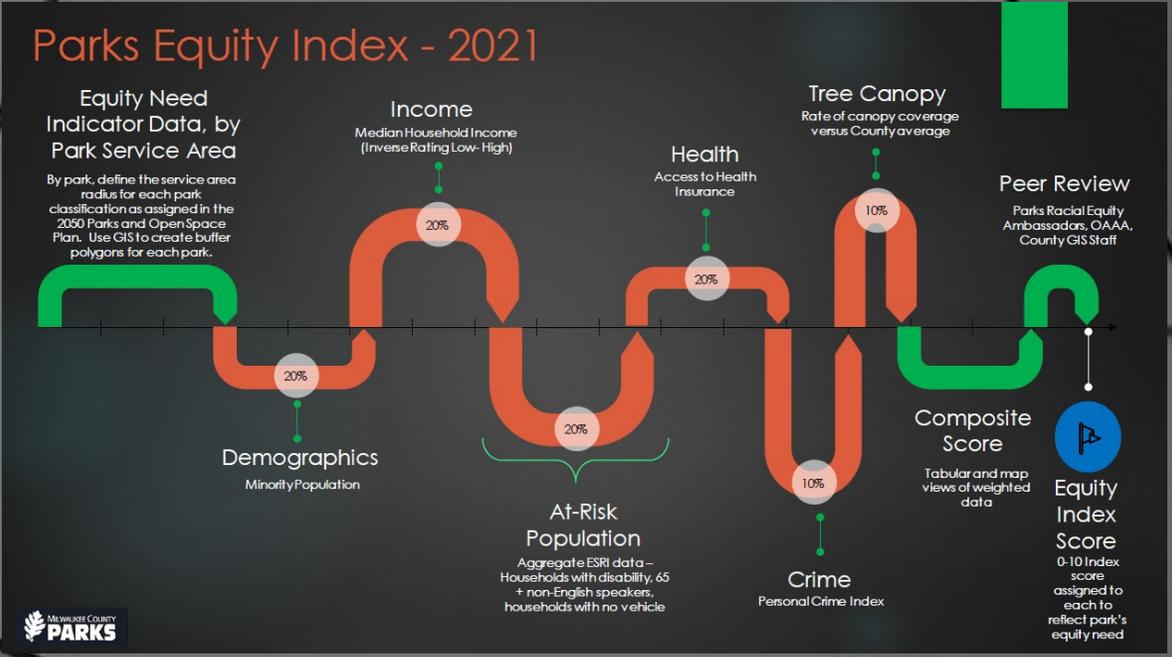
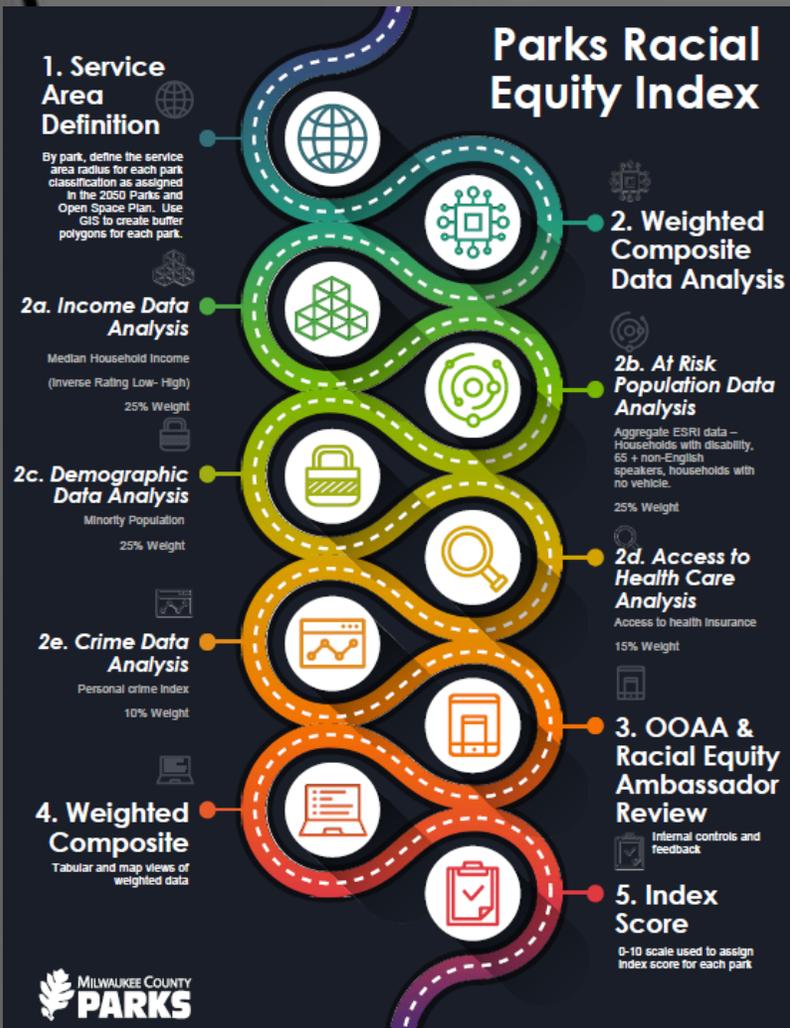
Milwaukee County - Specific Data

- *Clip park buffers to Milwaukee County limits*
- *All data inputs by rate, not sum, so that varying buffer sizes provide proportionately comparable index numbers*



Process and Data Improvements since 2020

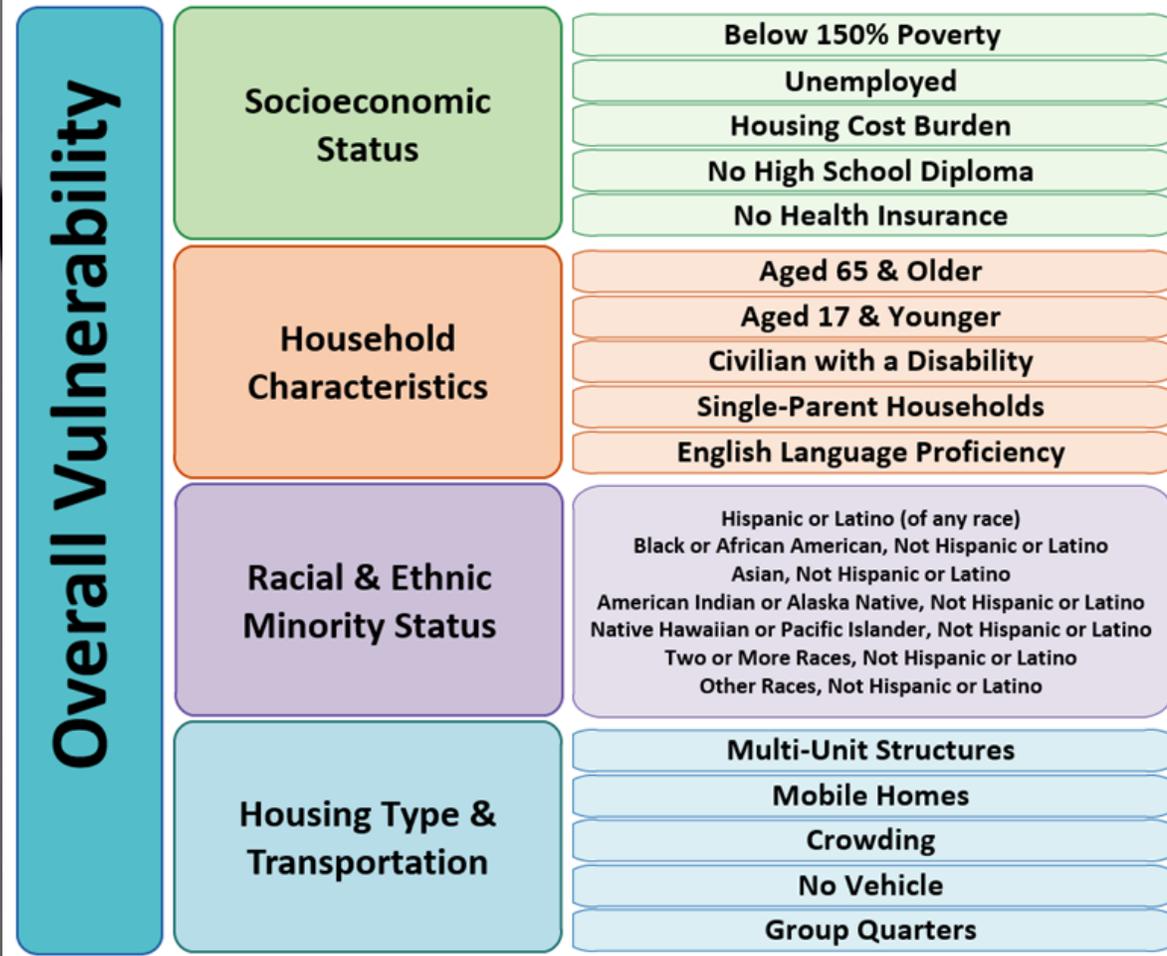
Pilot Parks Equity Index



Centers for Disease Control (CDC) Social Vulnerability Index (SVI)

Variables Used

American Community Survey (ACS), 2016-2020 (5-year) data for the following estimates:



Geospatial Determinants of Health

The places of our lives – our homes, workplaces, schools, parks, and houses of worship – affect the quality of our health and influence our experience with disease and well-being. Geospatial science, geographic information systems (GIS), and cartographic visualization provide important concepts, methods, and tools equipping public health scientists to examine, characterize, and analyze the important relationship between our health and the places of our lives.

Trust for Public Land – 10-Minute Walk Analysis

Why 10-minute walk to a park?

Close-to-home parks serve as essential backyards for millions of people and open up countless possibilities for communities and cities by helping to confront some of today's most pressing urban challenges.

The 10-minute walk metric—equivalent to approximately a half-mile for an able-bodied person—is the average distance most people are willing to walk to reach a destination, a standard that helps us examine the number of opportunities and resources a person has close to home.



Trust for Public Land – 10-Minute Walk Analysis

ParkServe® Milwaukee, WI ParkEvaluator™ Home Survey Help

WASHINGTON

Layers

- Park access
- Parks
- 10 minute walk service areas
- Priority areas for new parks
 - Moderate priority
 - High priority
 - Very high priority
- Heat risk priority zones
- Schools
- Park amenities
- ParkScore® Index - park equity measures
- Demographics
- Health
- Basemaps

Topographic

Zoom to Urban Area

Park Results

Milwaukee, WI - City Level

90.2%

Residents within a 10-minute walk of a park

57,977

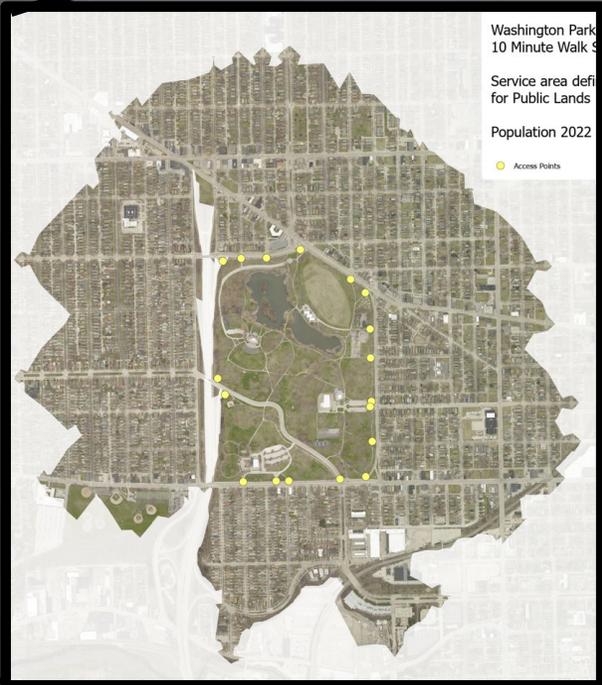
People outside a 10-minute walk
Total Population: 591,523

[View Report](#)

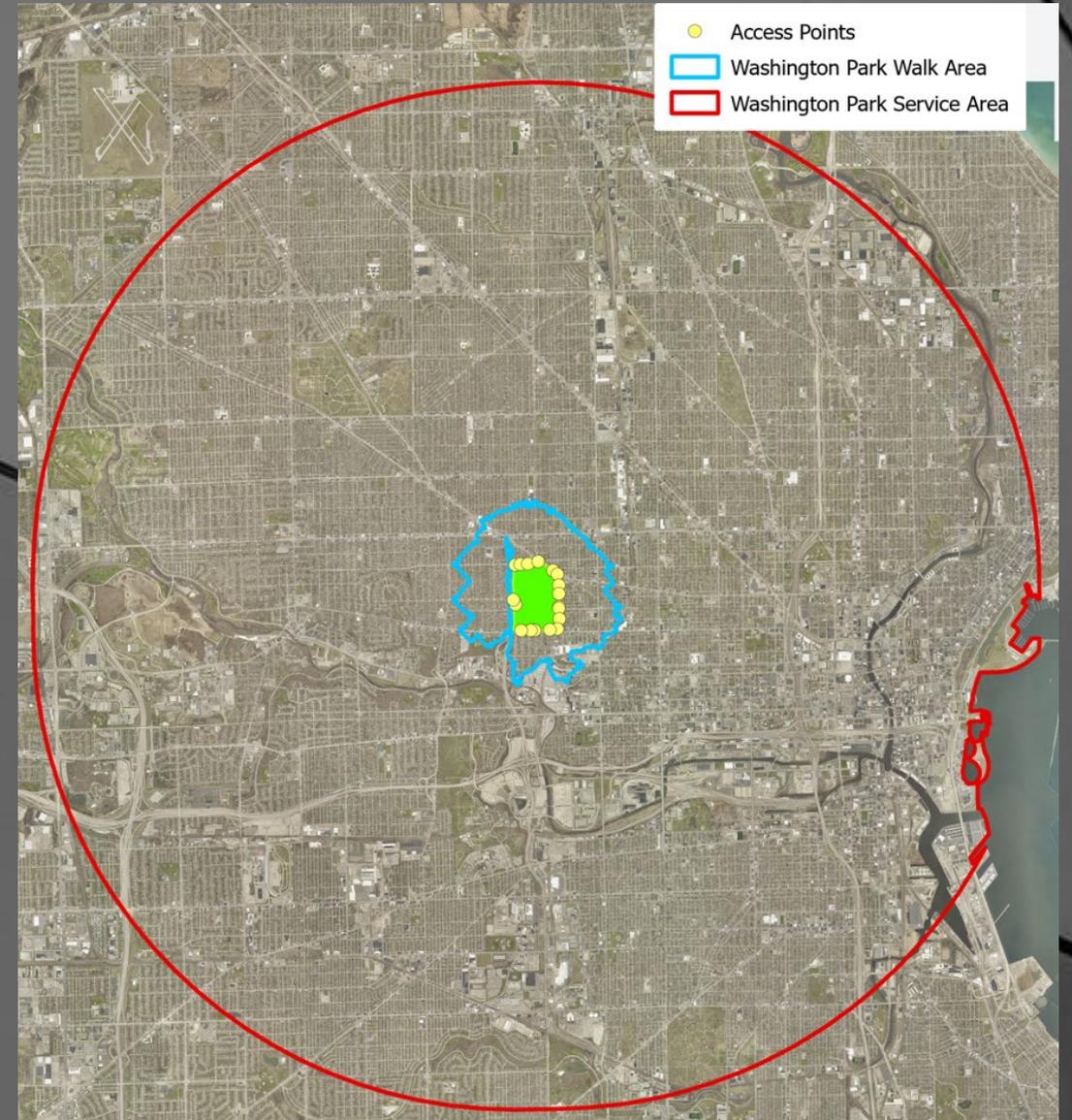
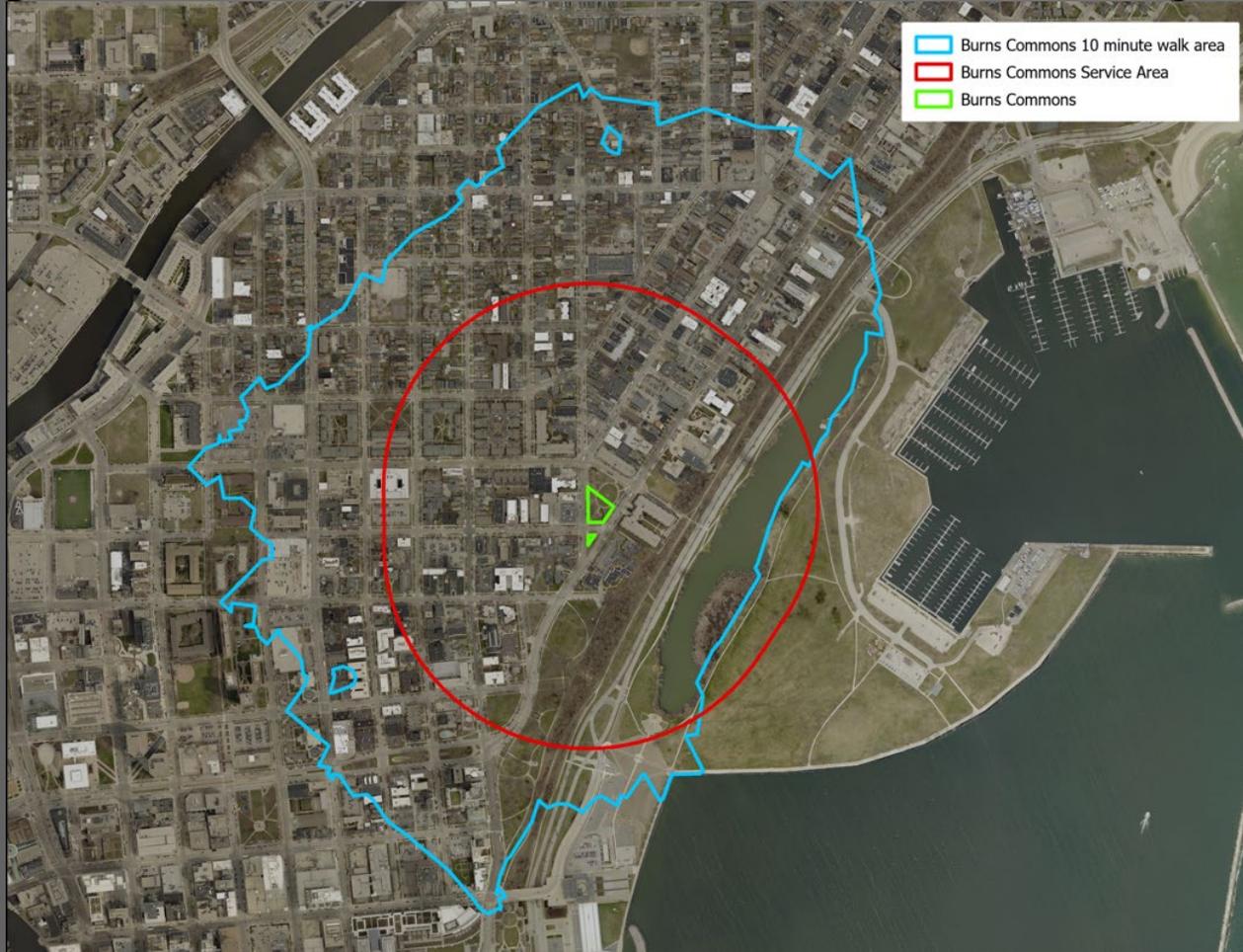
[Export Report](#)

[ParkEvaluator™ User Manual](#)

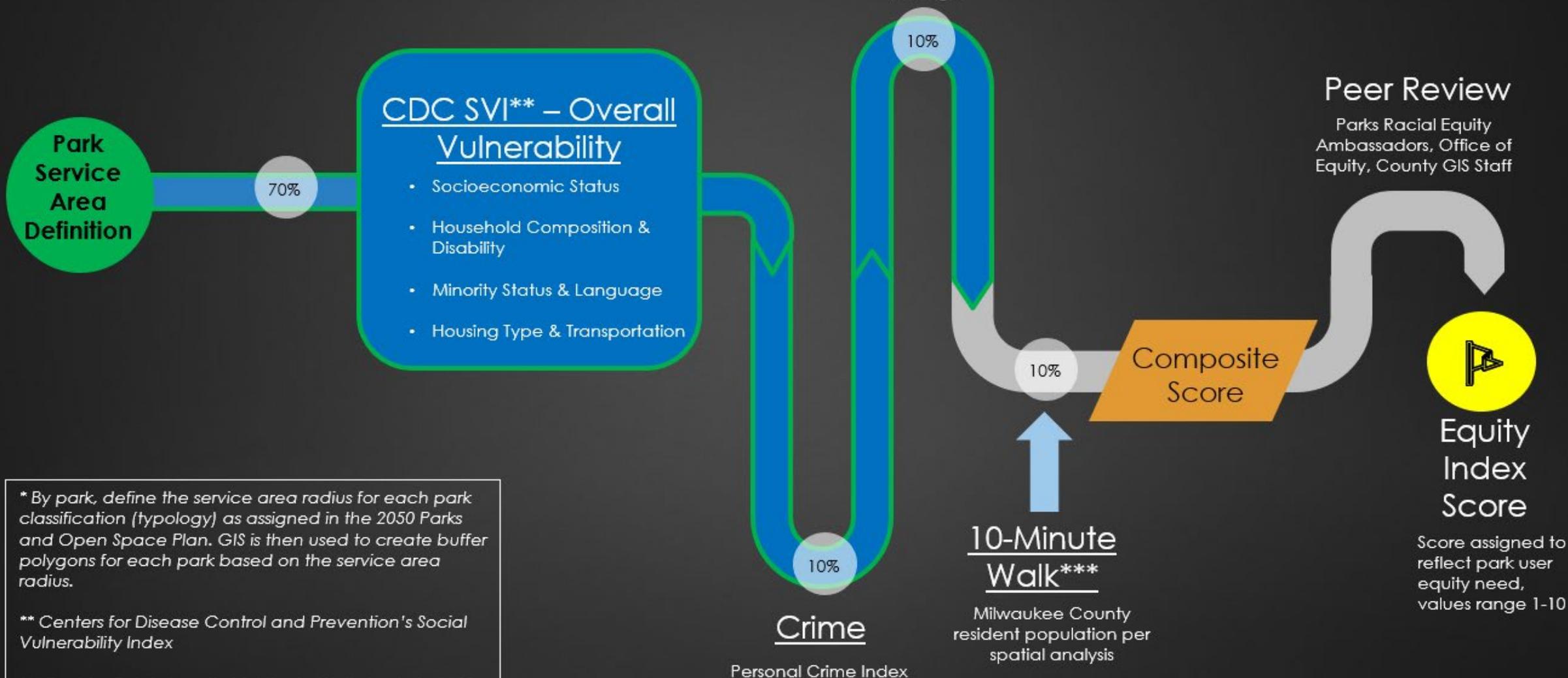
POWERED BY **esri**



Trust for Public Land – 10-Minute Walk Analysis



Milwaukee County Parks Equity Index – 2023



* By park, define the service area radius for each park classification (typology) as assigned in the 2050 Parks and Open Space Plan. GIS is then used to create buffer polygons for each park based on the service area radius.

** Centers for Disease Control and Prevention's Social Vulnerability Index

*** Trust for Public Land's 10-Minute Walk Analysis, 2022

Equity Index Score – Higher Score = Higher Equity Need

Site	Rank	2023 Equity Index Score* (1-10)	Final score	SVI				2022 Personal Crime Index				CanopyVari				WalkPop			
				Value	Score	weight	Weighted score	Value	Score	weight	Weighted score	Value	Score	weight	Weighted score	Value	Score	weight	Weighted score
Clarke Square Park	1	10	0.862397	0.972951	1.00	0.70	0.70	309	0.35	0.10	0.04	2	1.00	0.10	0.10	9,930	0.27	0.10	0.03
Tiefenthaler Park	2	10	0.842174	0.905544	0.93	0.70	0.65	655	0.76	0.10	0.08	2	1.00	0.10	0.10	6,771	0.18	0.10	0.02
Moody Park	3	10	0.837415	0.874065	0.89	0.70	0.62	856	1.00	0.10	0.10	2	1.00	0.10	0.10	5,305	0.14	0.10	0.01
Garden Homes Square	4	10	0.832029	0.902396	0.92	0.70	0.65	633	0.74	0.10	0.07	2	1.00	0.10	0.10	4,905	0.13	0.10	0.01
Walker Square Park	5	10	0.809109	0.906169	0.93	0.70	0.65	340	0.39	0.10	0.04	2	1.00	0.10	0.10	8,120	0.22	0.10	0.02
Vogel Park	6	10	0.803462	0.879929	0.90	0.70	0.63	538	0.62	0.10	0.06	2	1.00	0.10	0.10	4,964	0.14	0.10	0.01
Lincoln Creek Parkway	7	10	0.798118	0.817936	0.83	0.70	0.58	513	0.59	0.10	0.06	2	1.00	0.10	0.10	21,778	0.59	0.10	0.06
Atkinson Triangle	8	10	0.794925	0.843304	0.86	0.70	0.60	697	0.81	0.10	0.08	2	1.00	0.10	0.10	5,401	0.15	0.10	0.01
Pulaski Park	9	10	0.789699	0.880302	0.90	0.70	0.63	261	0.30	0.10	0.03	2	1.00	0.10	0.10	11,811	0.32	0.10	0.03
Clarence and Cleopatra Johnson Park	10	10	0.788475	0.819313	0.83	0.70	0.58	807	0.94	0.10	0.09	2	1.00	0.10	0.10	5,120	0.14	0.10	0.01
Lucille Berrien Park	11	10	0.781123	0.828444	0.84	0.70	0.59	667	0.78	0.10	0.08	2	1.00	0.10	0.10	5,884	0.16	0.10	0.02
Wyrick Park	12	10	0.779705	0.884322	0.90	0.70	0.63	353	0.41	0.10	0.04	2	1.00	0.10	0.10	3,018	0.08	0.10	0.01
Harriet Tubman Park	13	9	0.765541	0.832103	0.84	0.70	0.59	520	0.60	0.10	0.06	2	1.00	0.10	0.10	5,497	0.15	0.10	0.01
Indigenous Peoples' Park	14	9	0.749605	0.825282	0.84	0.70	0.58	402	0.46	0.10	0.05	2	1.00	0.10	0.10	6,715	0.18	0.10	0.02
McGovern Park	15	9	0.738570	0.803507	0.81	0.70	0.57	492	0.57	0.10	0.06	2	1.00	0.10	0.10	4,988	0.14	0.10	0.01
King Park	16	9	0.718858	0.750456	0.75	0.70	0.53	523	0.61	0.10	0.06	2	1.00	0.10	0.10	11,561	0.32	0.10	0.03
Lindsay Park	17	9	0.709835	0.779979	0.79	0.70	0.55	383	0.44	0.10	0.04	2	1.00	0.10	0.10	5,894	0.16	0.10	0.02
Little Menomonee River Parkway	18	9	0.709359	0.752536	0.75	0.70	0.53	374	0.43	0.10	0.04	2	1.00	0.10	0.10	13,940	0.38	0.10	0.04
Popuch Park	19	9	0.708613	0.812115	0.82	0.70	0.57	254	0.29	0.10	0.03	2	1.00	0.10	0.10	1,863	0.05	0.10	0.01
Sherman Park	20	9	0.705051	0.730872	0.73	0.70	0.51	578	0.67	0.10	0.07	2	1.00	0.10	0.10	9,709	0.26	0.10	0.03
Highland Park	21	9	0.704117	0.756614	0.76	0.70	0.53	541	0.63	0.10	0.06	2	1.00	0.10	0.10	3,624	0.10	0.10	0.01
Smith Park	22	9	0.692243	0.739631	0.74	0.70	0.52	523	0.61	0.10	0.06	2	1.00	0.10	0.10	4,899	0.13	0.10	0.01
Noyes Park	23	8	0.680650	0.752432	0.75	0.70	0.53	392	0.45	0.10	0.05	2	1.00	0.10	0.10	2,672	0.07	0.10	0.01
Granville Dog Park	24	8	0.669147	0.746629	0.75	0.70	0.52	388	0.45	0.10	0.04	2	1.00	0.10	0.10	287	0.01	0.10	0.00
Kinnickinnic River Parkway	25	8	0.662425	0.652322	0.64	0.70	0.45	172	0.19	0.10	0.02	2	1.00	0.10	0.10	34,088	0.93	0.10	0.09
Carver Park	26	8	0.660828	0.701674	0.70	0.70	0.49	527	0.61	0.10	0.06	2	1.00	0.10	0.10	4,047	0.11	0.10	0.01
Kosciuszko Park	27	8	0.657329	0.701110	0.70	0.70	0.49	249	0.28	0.10	0.03	2	1.00	0.10	0.10	14,965	0.41	0.10	0.04
Dretzka Park	28	8	0.647030	0.722665	0.72	0.70	0.51	365	0.42	0.10	0.04	2	1.00	0.10	0.10	18	0.00	0.10	0.00
Juneau Park	29	8	0.634710	0.658132	0.65	0.70	0.45	389	0.45	0.10	0.04	2	1.00	0.10	0.10	12,879	0.35	0.10	0.04
Schoenecker Park	30	8	0.633548	0.805875	0.81	0.70	0.57	525	0.61	0.10	0.06	1	0.00	0.10	0.00	1,043	0.03	0.10	0.00
East Side Bike Trail	31	8	0.630234	0.574675	0.56	0.70	0.39	352	0.40	0.10	0.04	2	1.00	0.10	0.10	36,655	1.00	0.10	0.10
Veterans Park	32	8	0.621675	0.649501	0.64	0.70	0.45	386	0.44	0.10	0.04	2	1.00	0.10	0.10	10,696	0.29	0.10	0.03
Washington Park	33	8	0.620118	0.646199	0.64	0.70	0.45	368	0.42	0.10	0.04	2	1.00	0.10	0.10	11,847	0.32	0.10	0.03
McKinley Park	34	8	0.619908	0.644927	0.64	0.70	0.44	392	0.45	0.10	0.05	2	1.00	0.10	0.10	11,094	0.30	0.10	0.03
Milwaukee Rotary Centennial Arboretum	35	8	0.613909	0.658769	0.65	0.70	0.46	442	0.51	0.10	0.05	2	1.00	0.10	0.10	2,781	0.08	0.10	0.01
Beckum Park	36	8	0.612429	0.657962	0.65	0.70	0.45	399	0.46	0.10	0.05	2	1.00	0.10	0.10	4,331	0.12	0.10	0.01
Rose Park	37	8	0.612253	0.642462	0.63	0.70	0.44	450	0.52	0.10	0.05	2	1.00	0.10	0.10	6,481	0.18	0.10	0.02

DATA SOURCES

ESRI ArcGIS Community Analyst tool used to was used to analyze the data. Community Analyst is a cloud-based mapping solution to visualize and analyze demographic information using up to date variables. <https://www.esri.com/en-us/arcgis/products/arcgis-community-analyst/overview>

Four variables used for 2023 Milwaukee County Parks Equity Index:

CDC SVI Social Vulnerability Index https://www.atsdr.cdc.gov/placeandhealth/svi/documentation/SVI_documentation_2020.html
2020 Social Vulnerability Index (SVI). Created by the Centers for Disease Control and Prevention (CDC) / Agency for Toxic Substances and Disease Registry (ATSDR) / Geospatial Research, Analysis, and Services Program (GRASP). The Social Vulnerability Index (SVI) uses U.S. Census data to determine the social vulnerability of every county and tract. CDC SVI ranks each county and tract on 15 social factors, including poverty, lack of vehicle access, and crowded housing, and groups them into four related themes: Socioeconomic Status, Household Characteristics, Racial & Ethnic Minority Status, and Housing and Transportation.

Personal Crime: 2022 Personal Crime Index (AGS), 2022

The Personal Crime Index provides an assessment of the relative risk of four major crime types: murder, rape, robbery, and assault. It is modeled using data from the FBI Uniform Crime Report and demographic data from the Census and AGS. [AGS-CrimeRisk-Methodology-2020B.pdf \(appliedgeographic.com\)](#) [CrimeRisk - Applied Geographic Solutions](#)

Tree Canopy: 2020 LiDAR derived vegetation data, Milwaukee County LIO, 2020

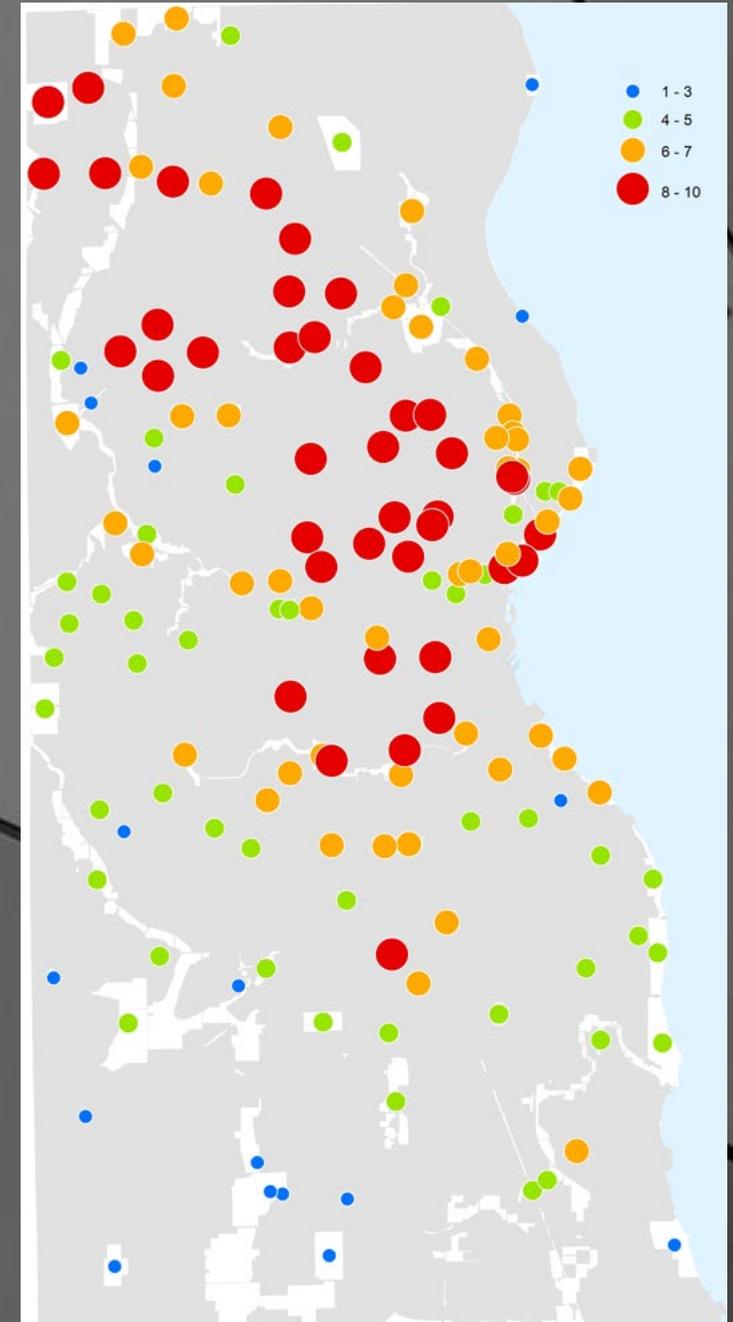
All polygons represent areas of canopy that are 8 feet or higher.

10-minute walk areas, The Trust for Public Lands, 2022

Population data per walk service area was from ESRI 2022 demographic data.

Criteria Weights 2023

70%	CDC SVI 2020
10%	2020 Tree Canopy < 34% County average
10%	2022 Personal Crime Index
10%	TPL 10 minute walk areas with 2022 population estimates



2023 Planned Applications



Capital Project Planning

Used for both internal evaluation as well as submission to CIC



Major Maintenance Funding Allocations

Used for internal decision-making purposes to weigh options



Project Proposal Requests

Used in matrix evaluation and scoring of third-party project proposals twice per year



Milwaukee Parks Foundation

Prioritize and focus investments



Other Internal Uses

Possible workforce allocations, etc.

Other Applications

Planning and Development GIS Viewer - Milwaukee County Parks

Find address or place

(2 of 2)	
SiteName	Rose Park
2023 Equity Index Score* (1-10)	8
Rank	37
Movement	-5
Final score	0.612253
2022 Rank	32
Shape_Area	416702.27294921875
Shape_Length	2577.011573007089

Layers

- City of Milwaukee- Local historic districts
- CDC Social Vulnerability Index 2018 - USA - Overall SVI - Tracts
- LDAC Conceptual Boundary
- Zip Codes
- Parks_Equity_2023
- Parks Equity 2022
- Compromised Sites
- Site Visits 2022 Placer (April-Sept)
- Qualified Census Tracts for the Low-Income Housing Tax Credit Program
- Bike Crash 2017-2021
- Crash Data All 2017-2021
- USA Flood Hazard Areas
- Fuels Gas Storage Tanks
- Parks Issues Reported Cityworks
- Hardscape Line Grouping Scores
- Hardscape Polygon Scores
- Hardscape - Athletic Court Scores
- Hardscape Polygon
- Hardscape Line
- Hardscape Trail Line

0.4mi

POWERED BY ESRI

Current Improvements

- ❖ Updated data in all variables
- ❖ Added analysis from Trust for Public Land on 10-minute walk

Future Possibilities

- ❖ Evaluation of aquatic facilities as driving asset
- ❖ Heat mapping data
- ❖ Improvements to health data
 - ❖ OEM EMS dashboard data
 - ❖ ESRI/GARE/Milwaukee County pilot project
 - ❖ Track advancement in PLACES and other health data for tract-level indicators
 - ❖ CDC PLACES Local Data for Better Health was evaluated as a part of this work, and while it has value for specific chronic illnesses, data is modeled, and therefore determined to not yet be accurate for average health metrics.
- ❖ Industry trends

Q&A

Please share your thoughts and help us improve this tool!

