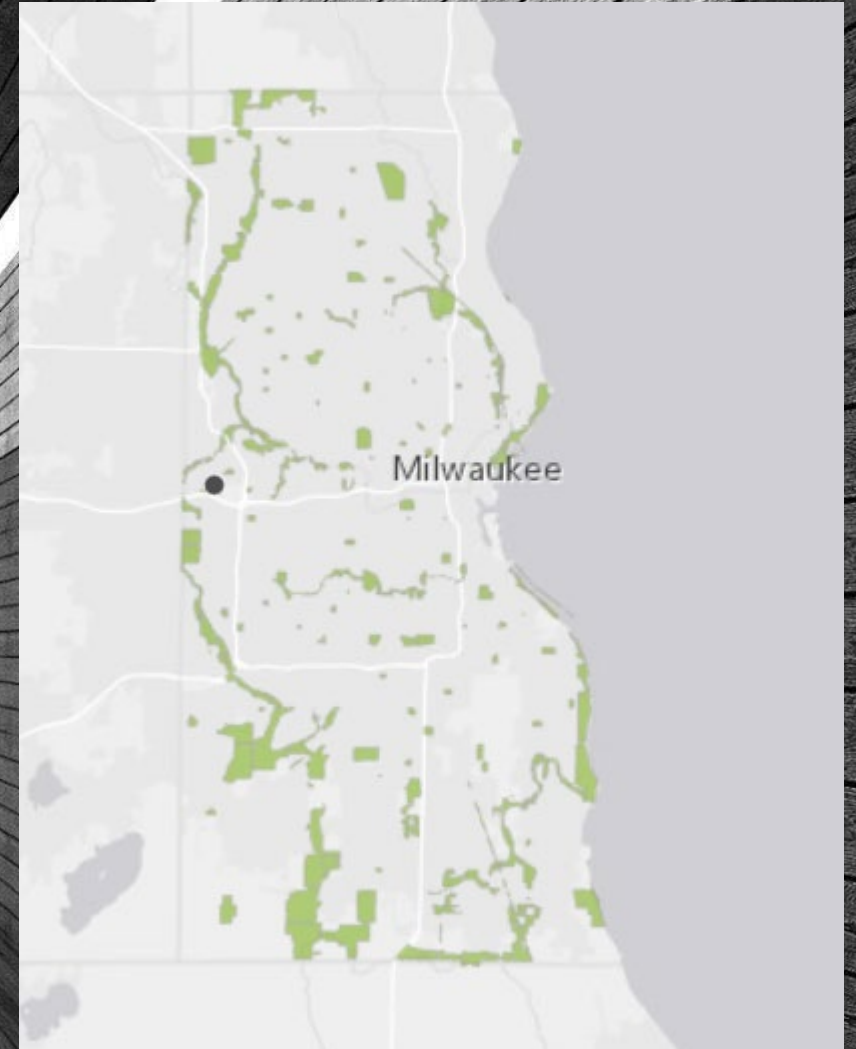


Milwaukee County

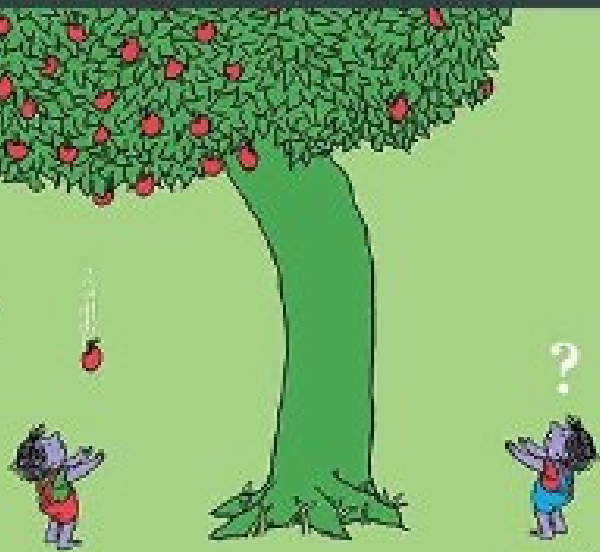
Parks Equity Index

2024 Approach & Updates



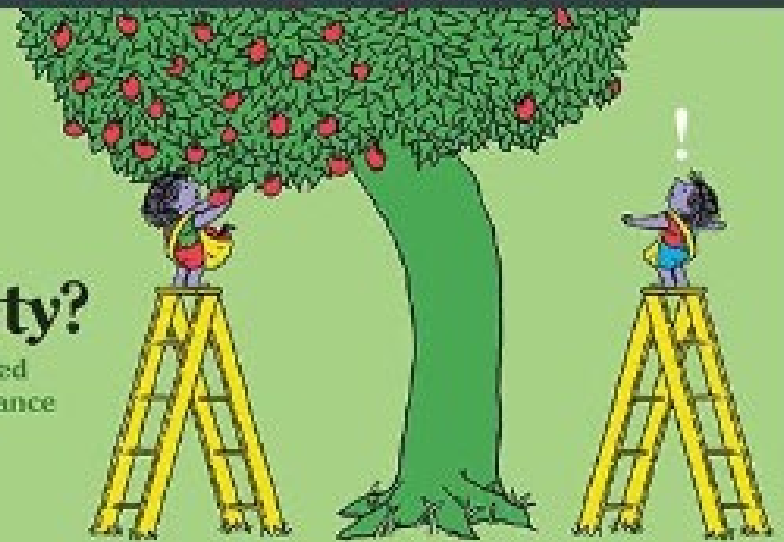
Inequality

Unequal access to opportunities



Equality?

Evenly distributed tools and assistance



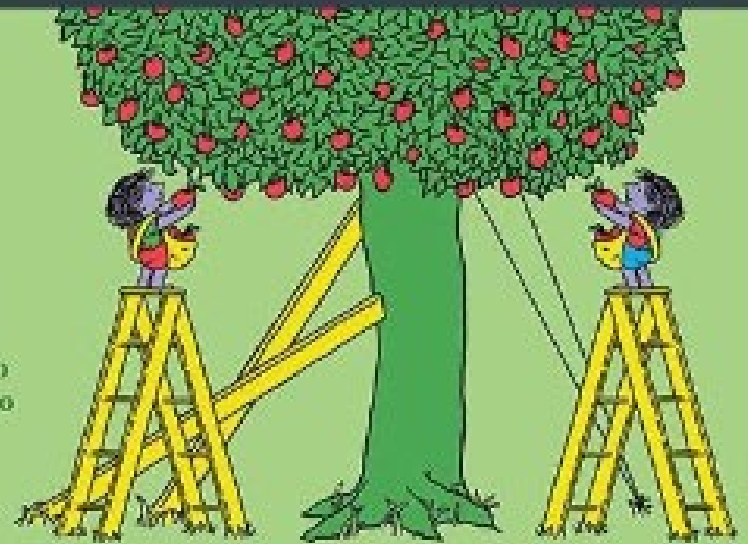
Equity

Custom tools that identify and address inequality



Justice

Fixing the system to offer equal access to both tools and opportunities



Milwaukee County's Commitment: By achieving racial equity, Milwaukee is the healthiest county in Wisconsin.

Figure 1

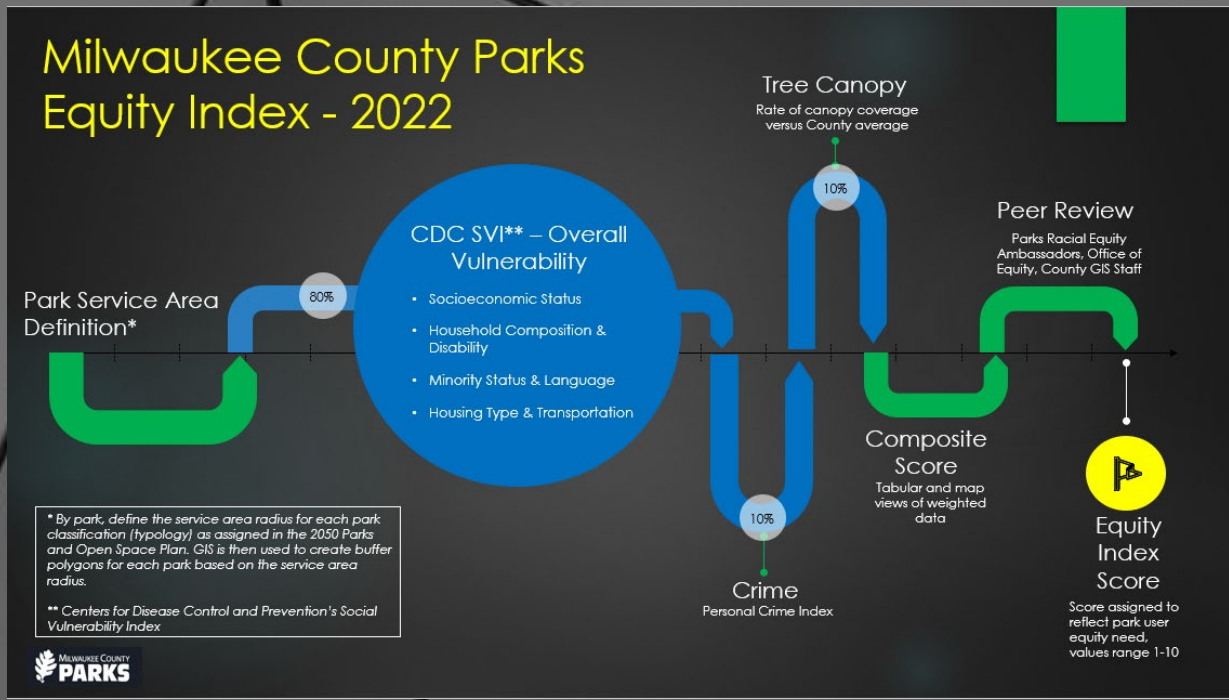
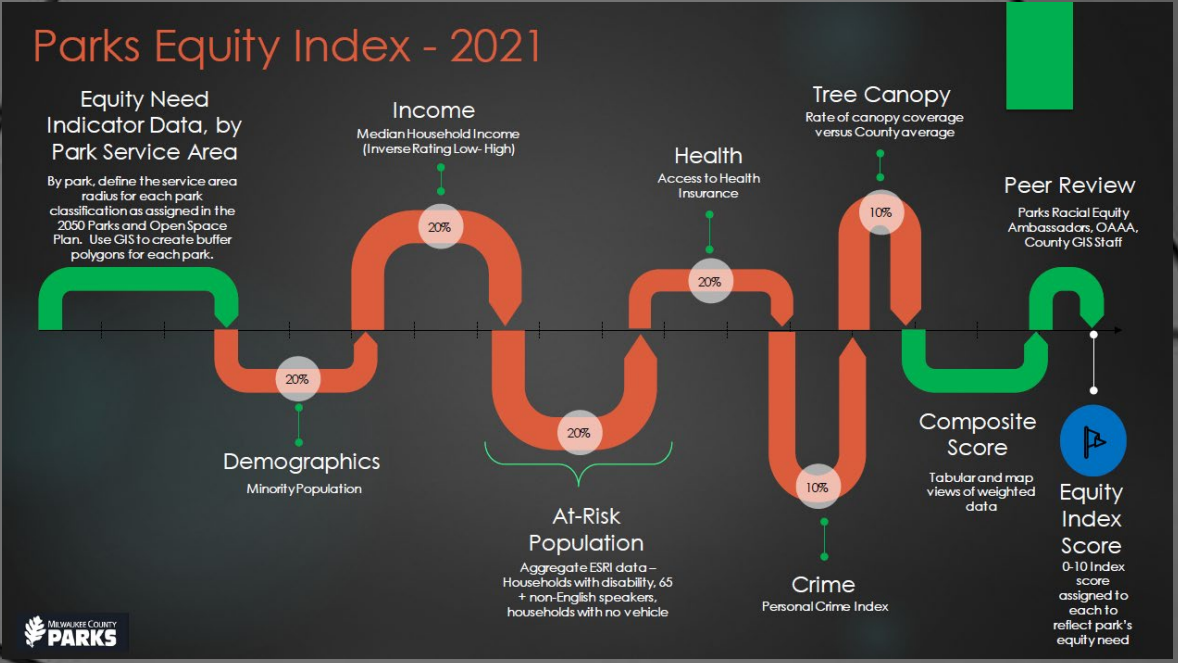
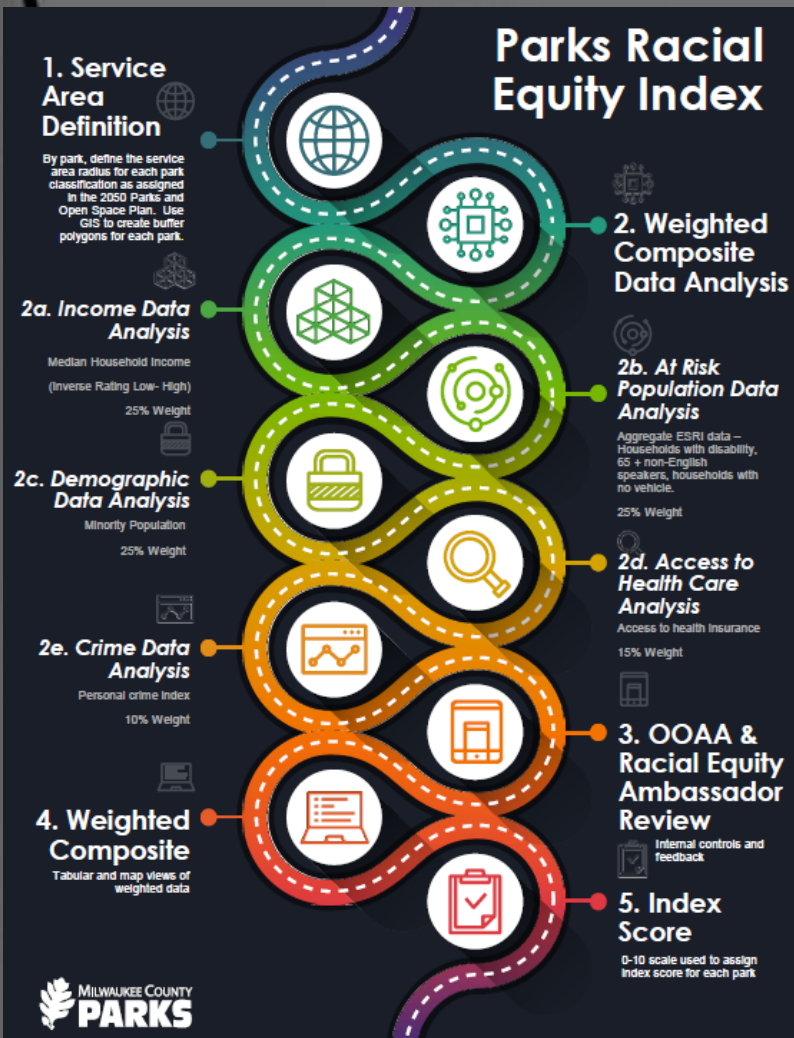
Social Determinants of Health

Economic Stability	Neighborhood and Physical Environment	Education	Food	Community and Social Context	Health Care System
Employment	Housing	Literacy	Hunger	Social integration	Health coverage
Income	Transportation	Language	Access to healthy options	Support systems	Provider availability
Expenses	Safety	Early childhood education		Community engagement	Provider linguistic and cultural competency
Debt	Parks	Vocational training		Discrimination	Quality of care
Medical bills	Playgrounds	Higher education		Stress	
Support	Walkability				
	Zip code / geography				

Health Outcomes

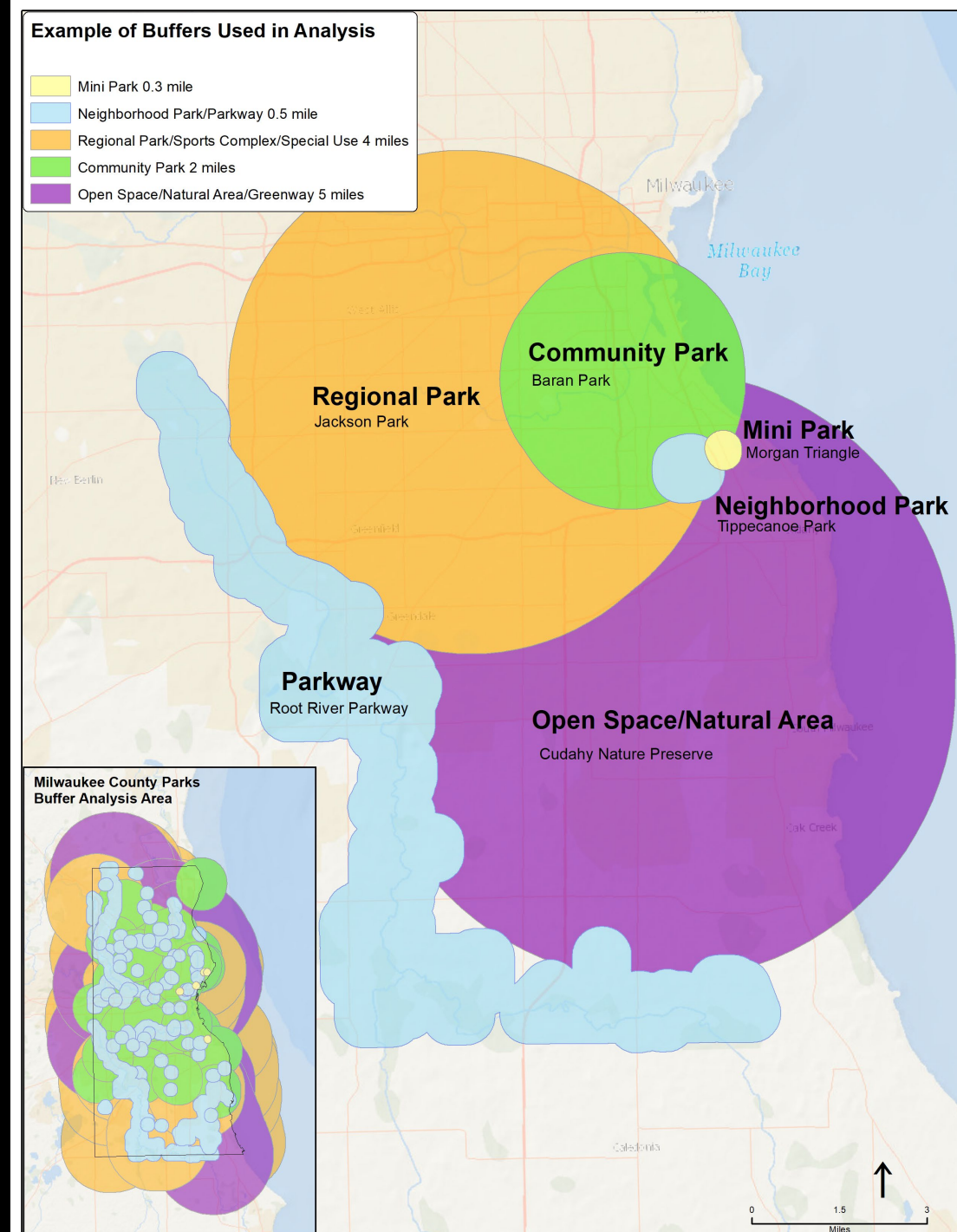
Mortality, Morbidity, Life Expectancy, Health Care Expenditures, Health Status, Functional Limitations

Process and Data Improvements since 2020 Pilot Parks Equity Index



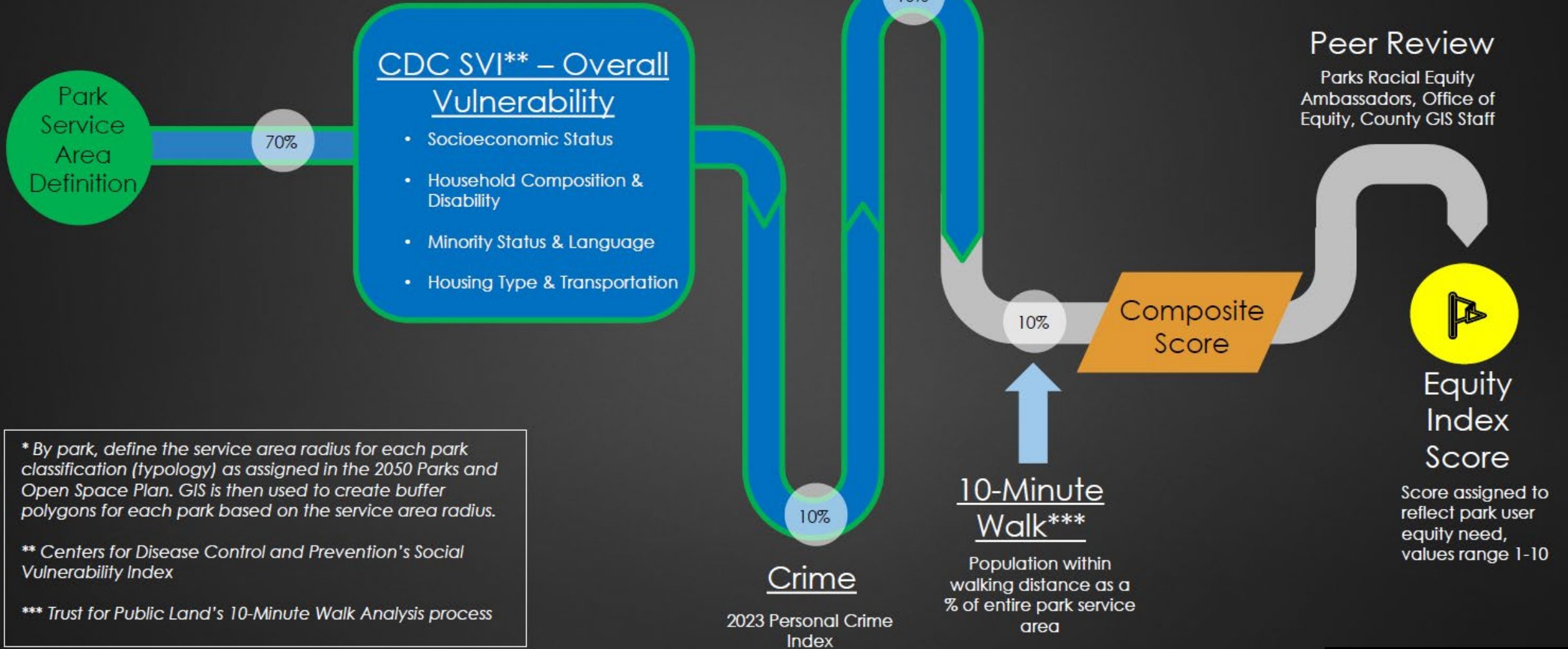
Park Typology - 2050 Parks and Open Space Plan

- **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.



Milwaukee County Parks Equity Index – 2024

Typology Model



* 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.

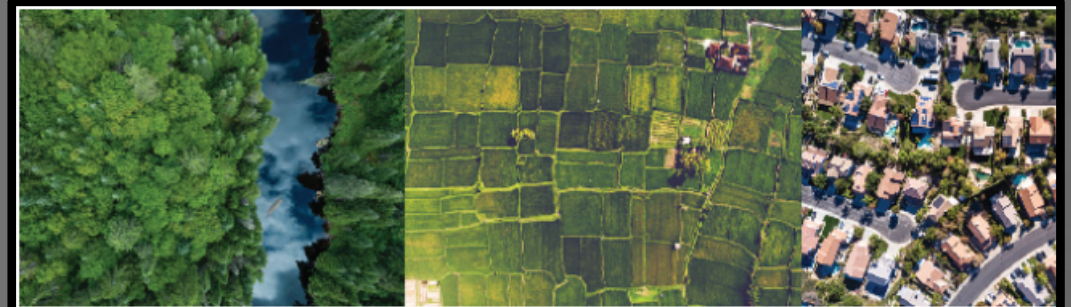
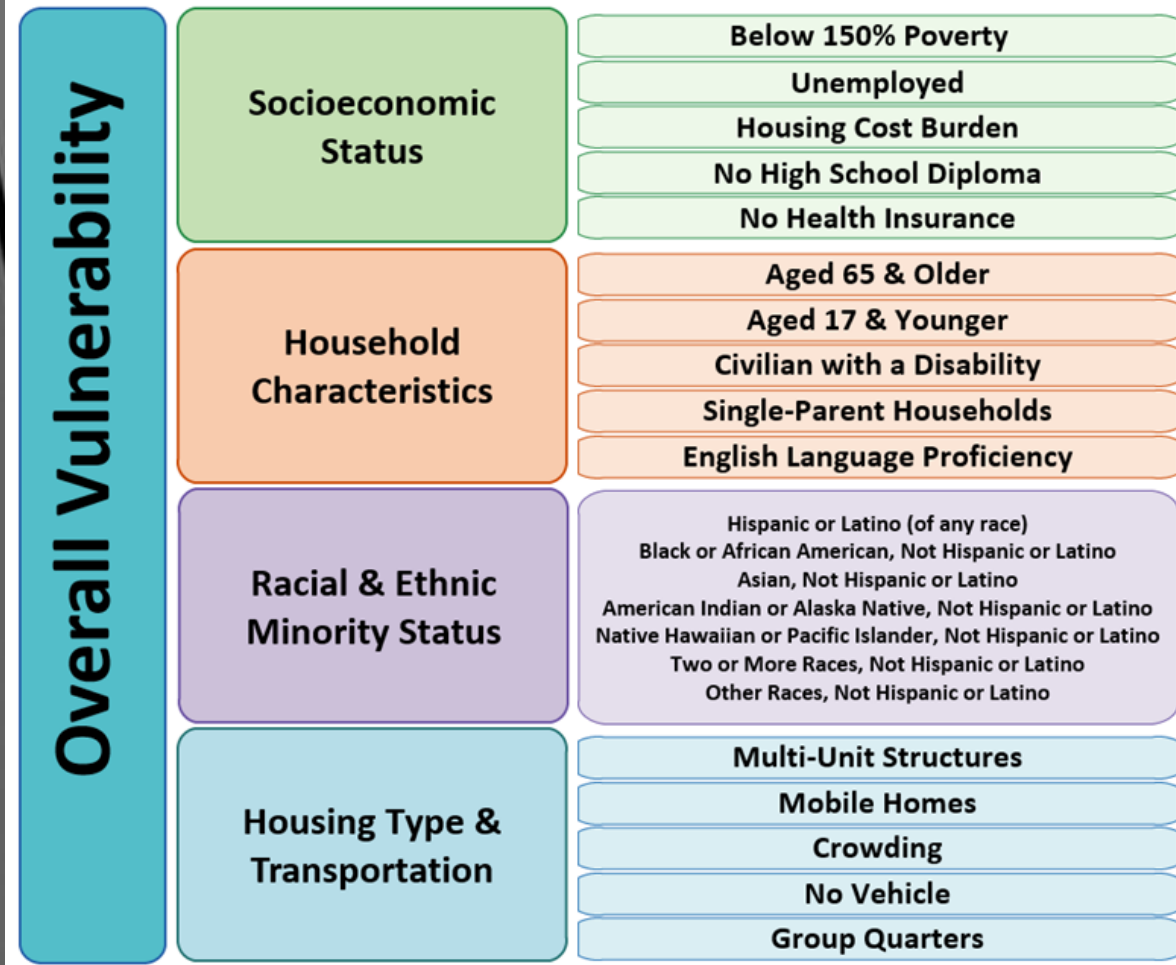
** Centers for Disease Control and Prevention's Social Vulnerability Index

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

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

Variables Used

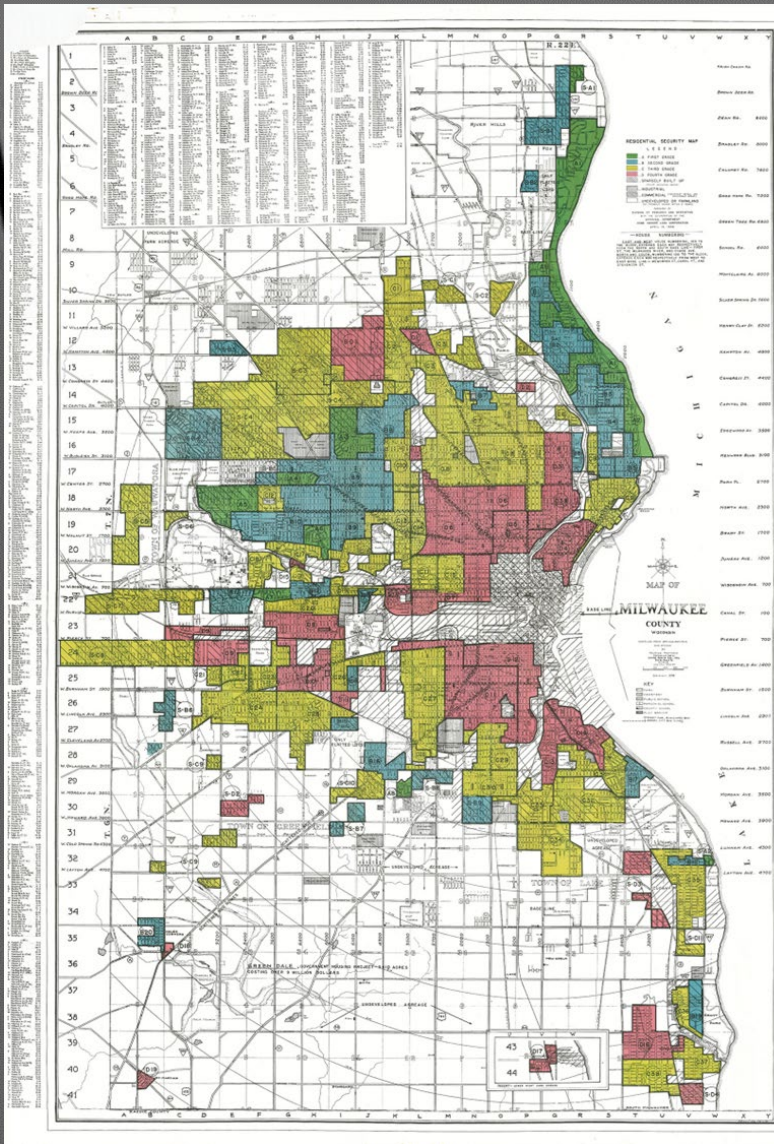
American Community Survey (ACS), 2016-2020 (5-year) data for the following estimates:



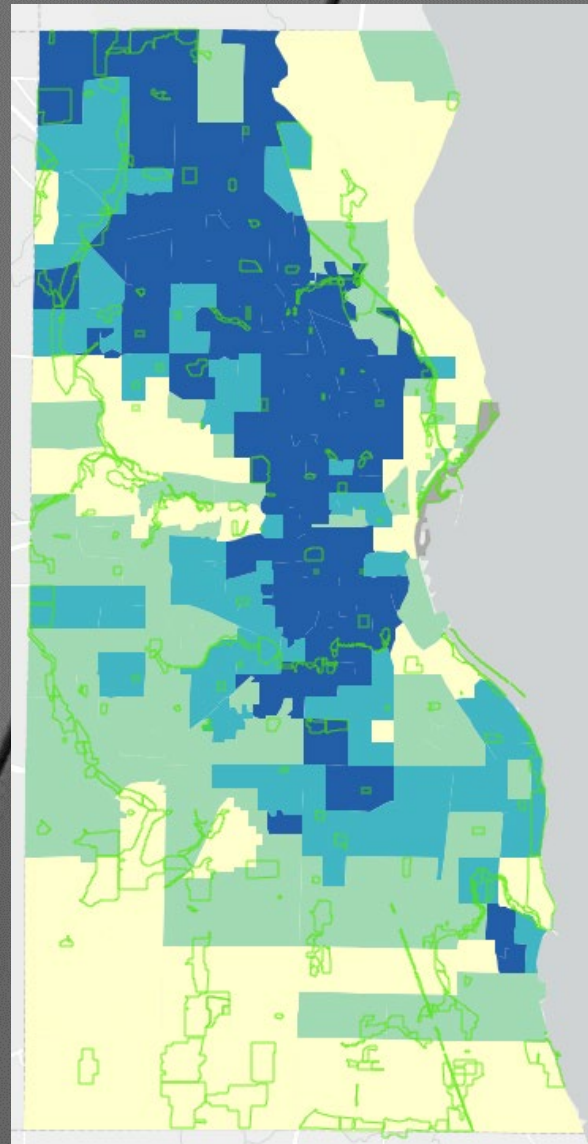
Geospatial Determinants of Health

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.

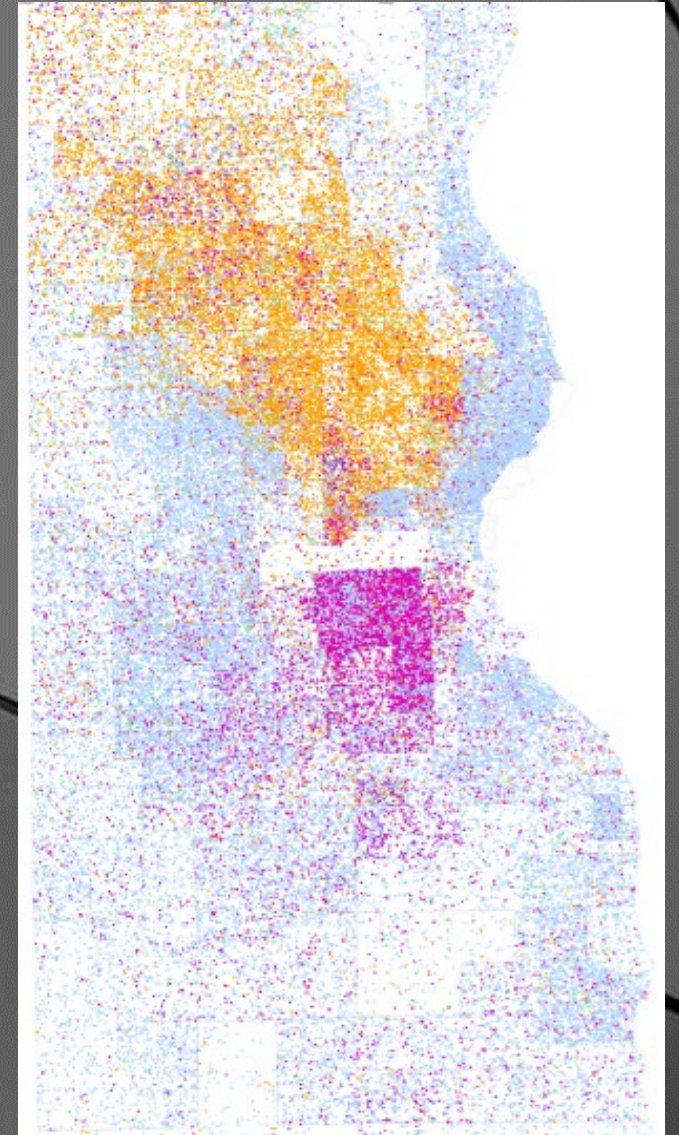
Current Conditions in Milwaukee



Residential Security Map



CDC Social Vulnerability Index



Demographics

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](#)

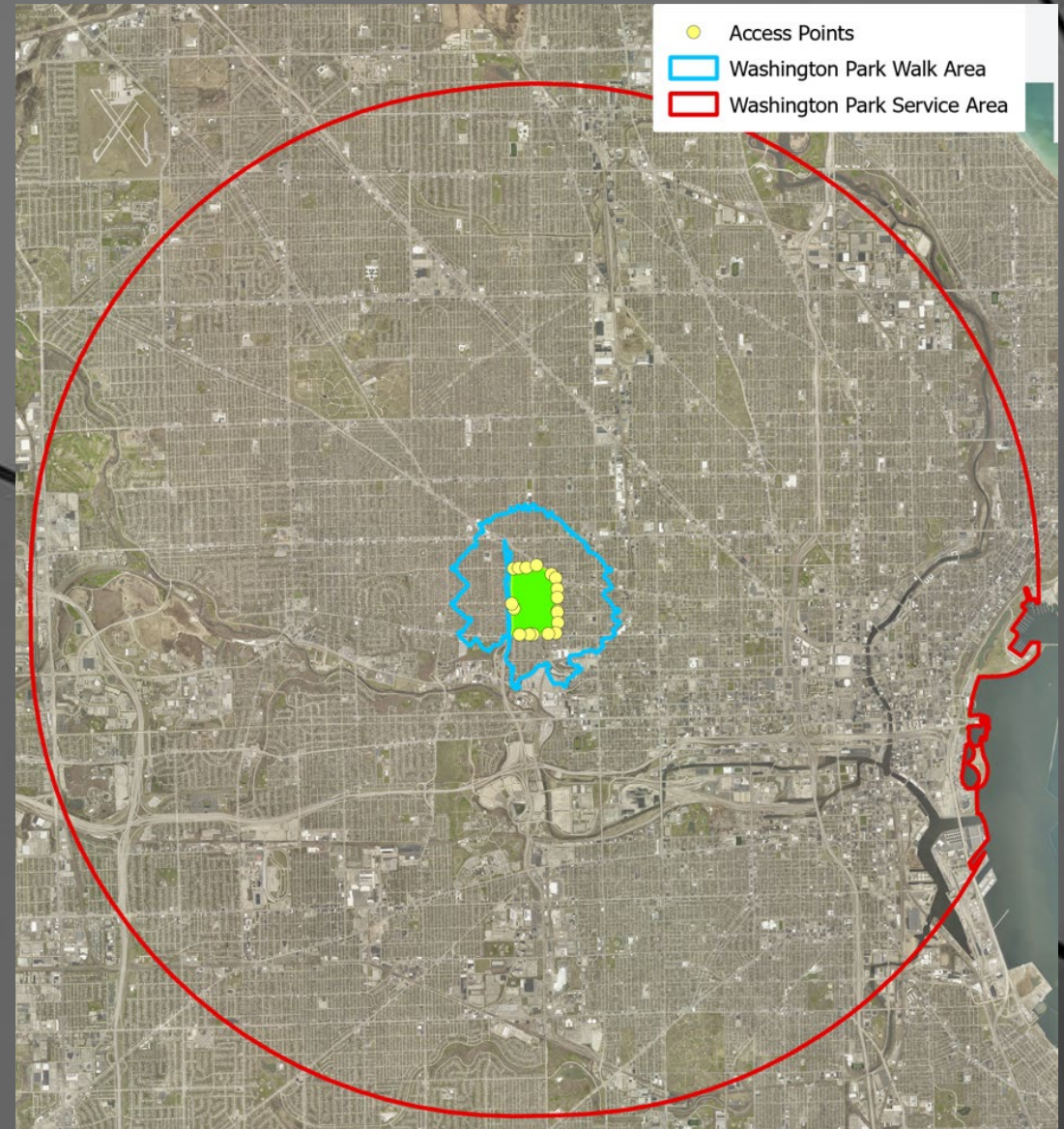
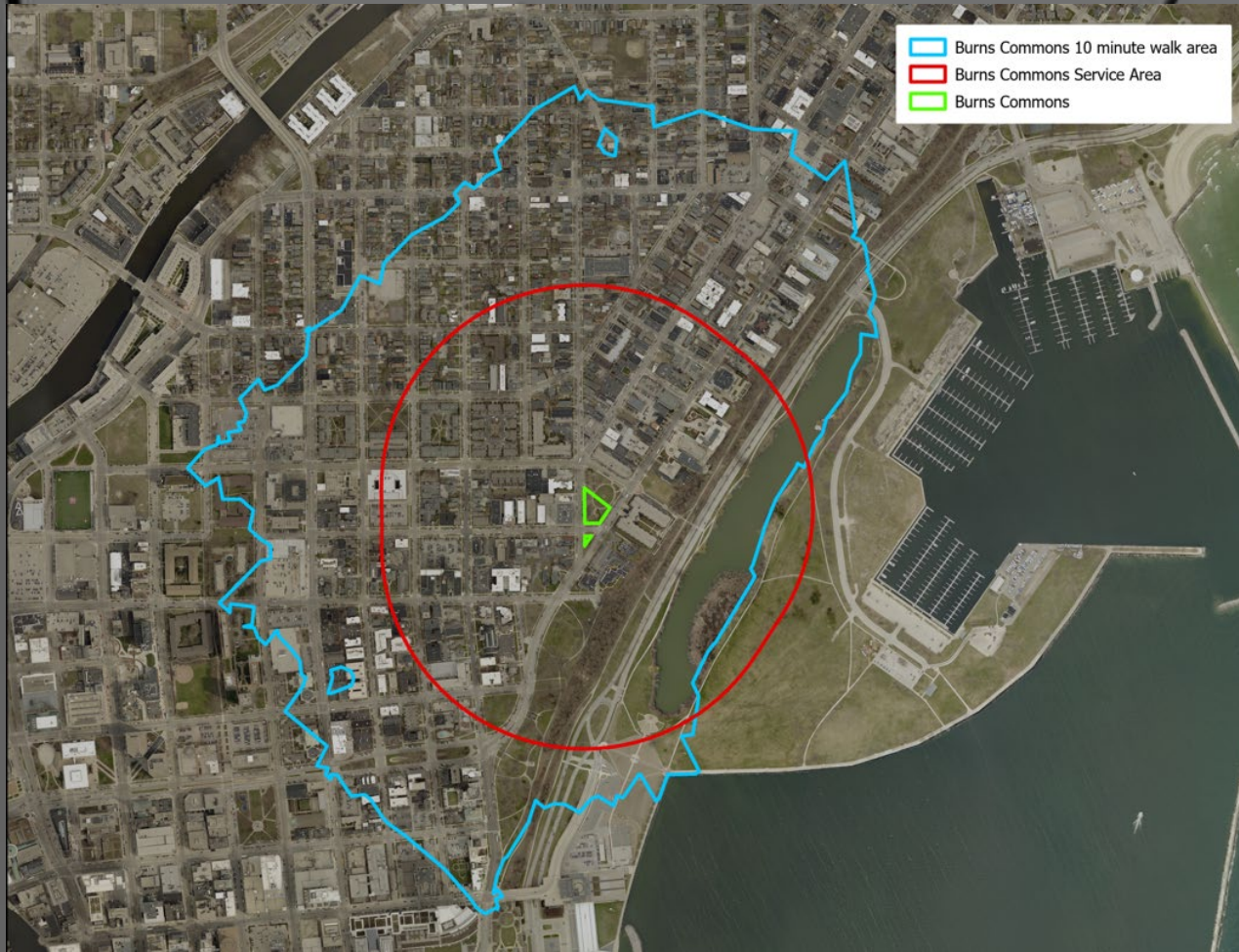
[Export Report](#)

[ParkEvaluator™ User Manual](#)

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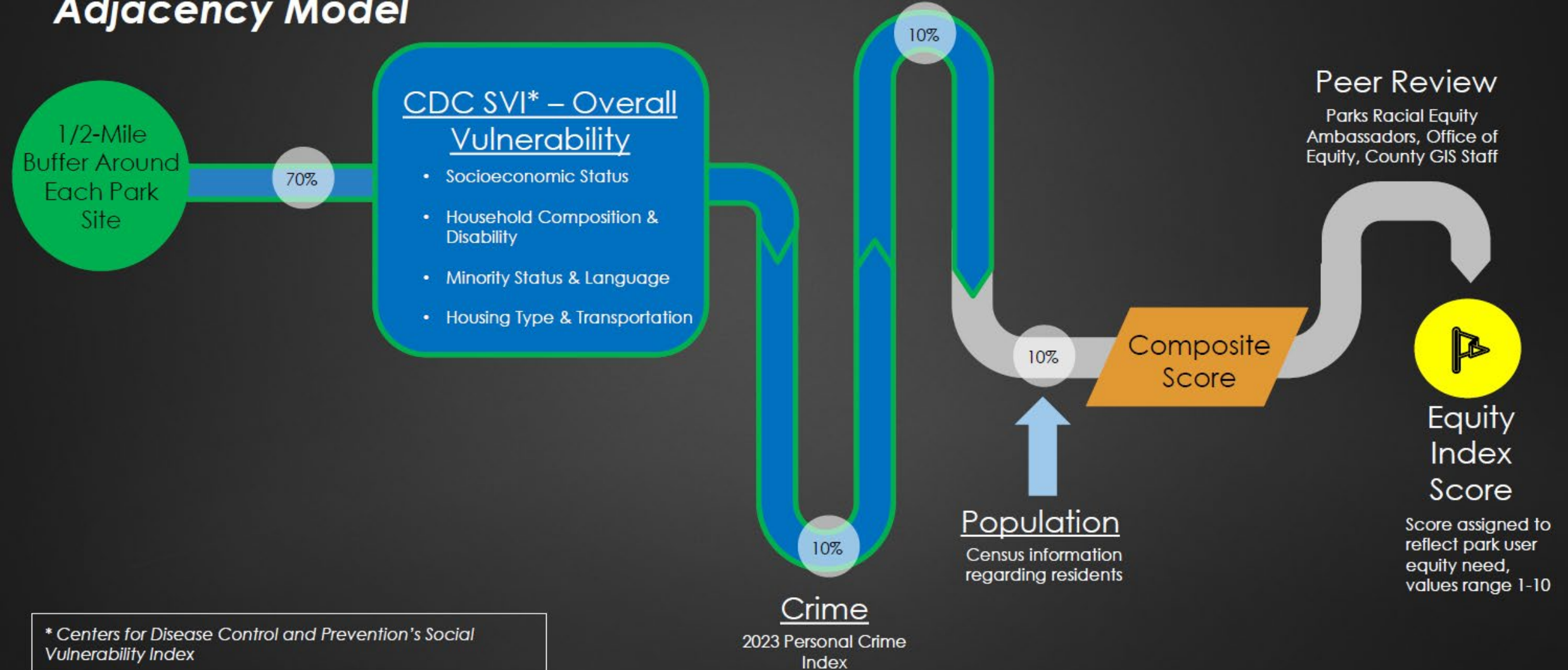


Trust for Public Land – 10-Minute Walk Analysis



Milwaukee County Parks Equity Index – 2024

Adjacency Model



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

DATA SOURCES

ESRI ArcGIS Community Analyst tool used to analyze the data, applying a ½-mile buffer to all parks and parkways. 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 2024 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: 2023 Personal Crime Index (AGS), 2023

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

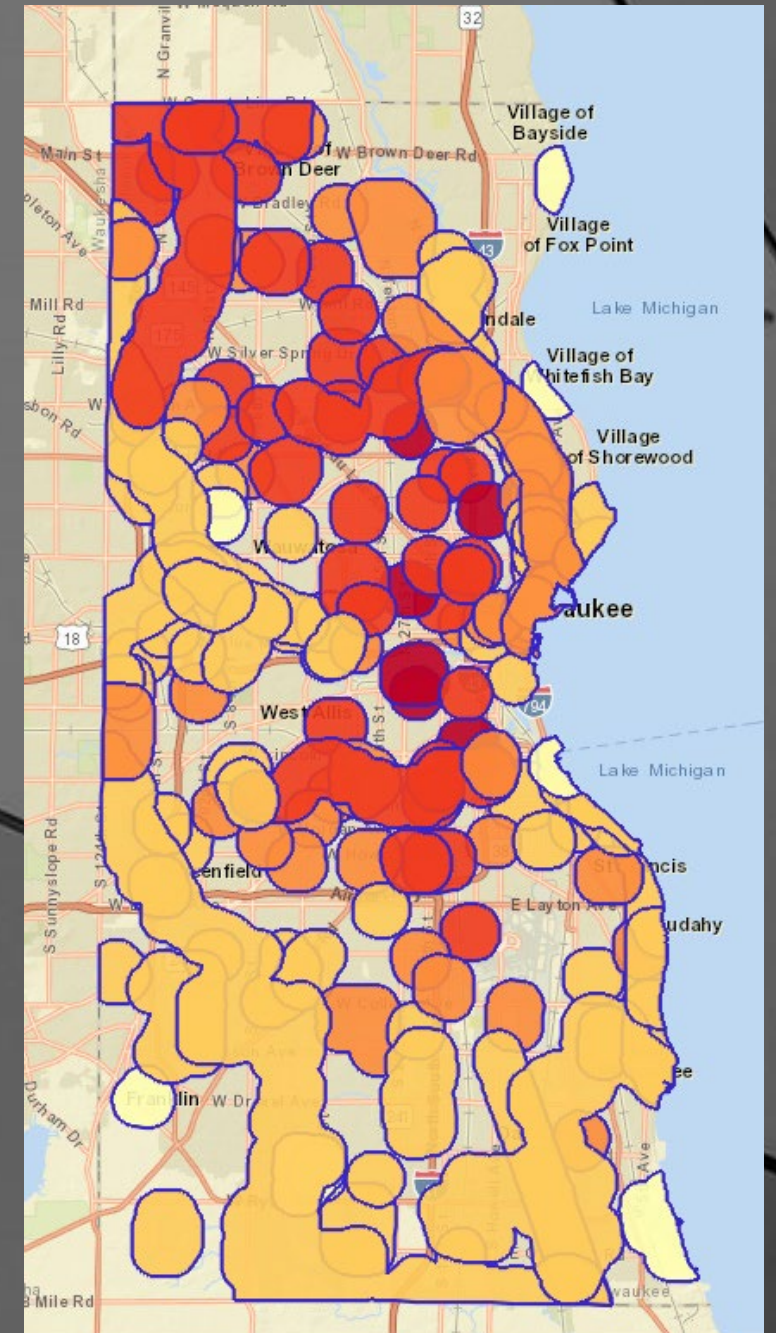
All polygons represent areas of canopy that are 8 feet or higher.

Population Counts, ESRI

Population data per walk service area was from ESRI 2023 demographic data.

Criteria Weights 2024, Adjacency Model

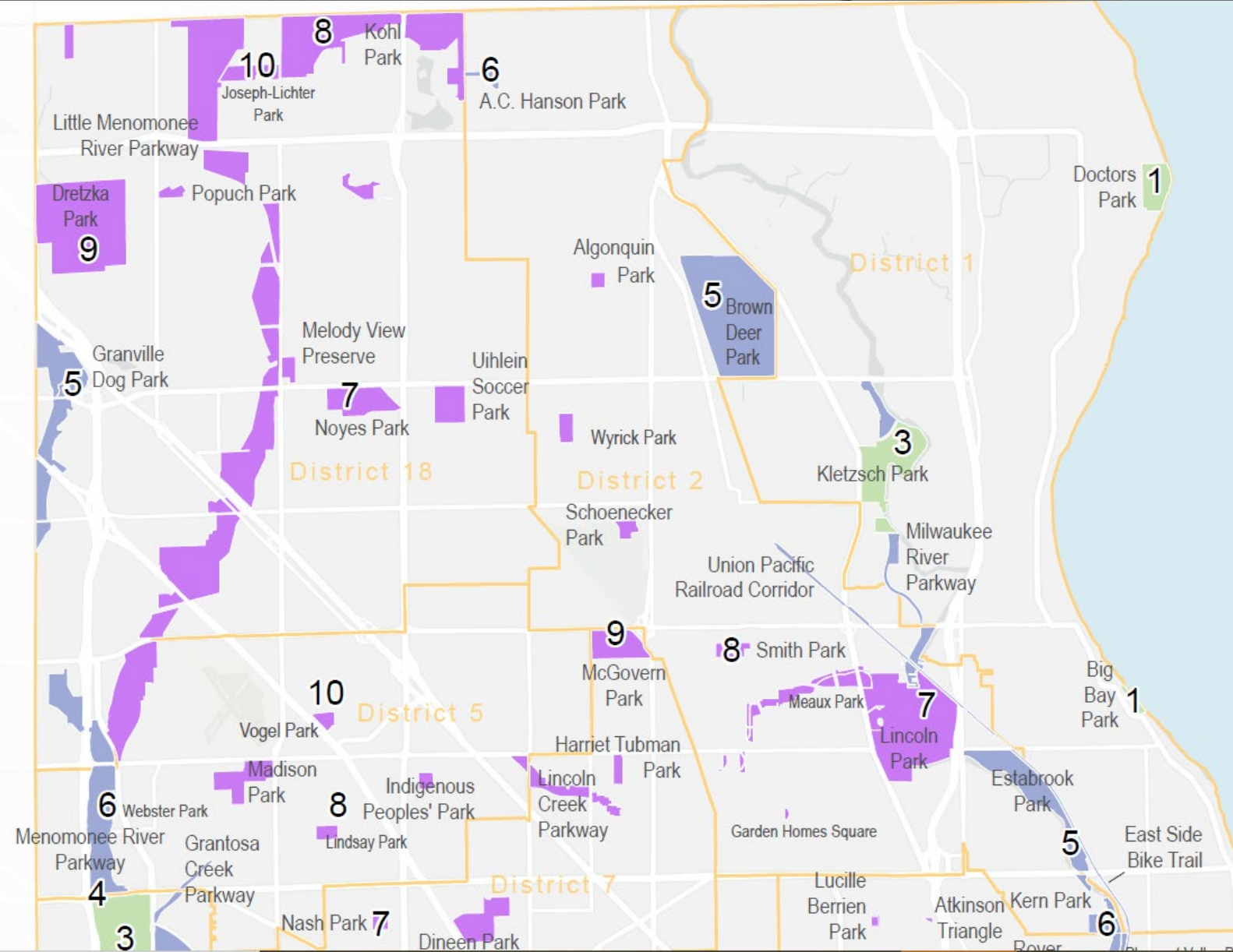
70%	CDC SVI 2020
10%	2020 Tree Canopy, ranked order
10%	2023 Personal Crime Index
10%	Population counts within buffers



Equity Index Score, Adjacency Model - Higher Score = Higher Equity Need

Site	Rank	2024 Equity Index Score* (1-10)	Final score	RPL_THEMES				2023 Personal Crime Index				CanoPercen				Population			
				Value	Score	weight	Weighted score	Value	Score	weight	Weighted score	Value	Score	weight	Weighted score	Value	Score	weight	Weighted score
Mitchell Park	1	10	0.84	0.978883	1.00	0.70	0.70	183	0.37	0.10	0.03	15.456146	0.83	0.10	0.08	11,967	0.22	0.10	0.02
Clarke Square Park	2	10	0.83	0.972951	0.99	0.70	0.70	170	0.34	0.10	0.03	23.125299	0.71	0.10	0.07	13,741	0.25	0.10	0.03
Kosciuszko Park	3	10	0.81	0.925087	0.94	0.70	0.66	169	0.34	0.10	0.03	18.640628	0.78	0.10	0.08	19,252	0.35	0.10	0.04
Rose Park	4	10	0.81	0.894704	0.91	0.70	0.64	443	0.93	0.10	0.09	30.068707	0.60	0.10	0.06	9,481	0.17	0.10	0.02
Tiefenthaler Park	5	10	0.81	0.905544	0.92	0.70	0.65	362	0.76	0.10	0.07	26.351370	0.66	0.10	0.07	10,981	0.20	0.10	0.02
Garden Homes Square	6	10	0.80	0.902396	0.92	0.70	0.64	350	0.73	0.10	0.07	18.557696	0.78	0.10	0.08	5,766	0.10	0.10	0.01
Moody Park	7	10	0.80	0.874065	0.89	0.70	0.62	474	1.00	0.10	0.10	27.983959	0.63	0.10	0.06	8,646	0.16	0.10	0.02
Walker Square Park	8	10	0.79	0.906169	0.92	0.70	0.65	186	0.37	0.10	0.04	15.976716	0.82	0.10	0.08	11,487	0.21	0.10	0.02
Sherman Park	9	10	0.78	0.864524	0.88	0.70	0.62	393	0.82	0.10	0.08	30.657778	0.59	0.10	0.06	13,314	0.24	0.10	0.02
Joseph-Lichter Park	10	10	0.77	0.902907	0.92	0.70	0.64	339	0.71	0.10	0.07	35.639084	0.51	0.10	0.05	4,763	0.08	0.10	0.01
Vogel Park	11	10	0.77	0.879929	0.90	0.70	0.63	303	0.63	0.10	0.06	26.383912	0.66	0.10	0.07	7,606	0.14	0.10	0.01
Clarence and Cleopatra Johnson Park	12	10	0.76	0.819313	0.83	0.70	0.58	445	0.94	0.10	0.09	21.714214	0.73	0.10	0.07	7,601	0.14	0.10	0.01
Atkinson Triangle	13	9	0.76	0.843304	0.86	0.70	0.60	386	0.81	0.10	0.08	27.594741	0.64	0.10	0.06	7,728	0.14	0.10	0.01
Lincoln Creek Parkway	14	9	0.76	0.817936	0.83	0.70	0.58	286	0.59	0.10	0.06	29.680880	0.61	0.10	0.06	29,955	0.55	0.10	0.06
Carver Park	15	9	0.75	0.825368	0.84	0.70	0.59	373	0.78	0.10	0.07	18.044111	0.79	0.10	0.08	6,091	0.11	0.10	0.01
Pulaski Park	16	9	0.75	0.880302	0.90	0.70	0.63	144	0.28	0.10	0.03	27.759528	0.64	0.10	0.06	16,141	0.29	0.10	0.03
Lucille Berrien Park	17	9	0.75	0.828444	0.84	0.70	0.59	369	0.77	0.10	0.07	27.422908	0.64	0.10	0.06	8,934	0.16	0.10	0.02
Wyrick Park	18	9	0.74	0.884322	0.90	0.70	0.63	197	0.40	0.10	0.04	28.974347	0.62	0.10	0.06	4,435	0.08	0.10	0.01
McGovern Park	19	9	0.73	0.845741	0.86	0.70	0.60	281	0.58	0.10	0.06	33.093755	0.55	0.10	0.06	8,561	0.15	0.10	0.02
Beckum Park	20	9	0.73	0.792869	0.81	0.70	0.56	368	0.77	0.10	0.07	20.839554	0.75	0.10	0.08	6,306	0.11	0.10	0.01
Harriet Tubman Park	21	9	0.72	0.832103	0.85	0.70	0.59	288	0.59	0.10	0.06	33.067795	0.55	0.10	0.06	9,019	0.16	0.10	0.02
Indigenous Peoples' Park	22	9	0.71	0.825282	0.84	0.70	0.59	224	0.46	0.10	0.04	26.381782	0.66	0.10	0.07	8,880	0.16	0.10	0.02
KK Sports Center	23	9	0.71	0.834740	0.85	0.70	0.60	122	0.23	0.10	0.02	24.099111	0.69	0.10	0.07	12,034	0.22	0.10	0.02
King Park	24	9	0.70	0.751245	0.76	0.70	0.53	258	0.53	0.10	0.05	16.571907	0.81	0.10	0.08	17,201	0.31	0.10	0.03
Schoenecker Park	25	9	0.69	0.807026	0.82	0.70	0.58	292	0.60	0.10	0.06	35.348630	0.52	0.10	0.05	3,130	0.05	0.10	0.01
Dretzka Park	26	9	0.69	0.832229	0.85	0.70	0.59	148	0.29	0.10	0.03	29.861160	0.60	0.10	0.06	2,971	0.05	0.10	0.01
Little Menomonee River Parkway	27	9	0.69	0.752780	0.77	0.70	0.54	210	0.42	0.10	0.04	31.778330	0.57	0.10	0.06	27,151	0.49	0.10	0.05
Harley Park	28	8	0.68	0.756614	0.77	0.70	0.54	298	0.62	0.10	0.06	23.943675	0.70	0.10	0.07	6,234	0.11	0.10	0.01
Popuch Park	29	8	0.68	0.812115	0.83	0.70	0.58	150	0.29	0.10	0.03	27.451524	0.64	0.10	0.06	3,466	0.06	0.10	0.01
Lindsay Park	30	8	0.68	0.779979	0.79	0.70	0.56	217	0.44	0.10	0.04	26.988436	0.65	0.10	0.07	8,026	0.14	0.10	0.01
Dineen Park	31	8	0.68	0.765964	0.78	0.70	0.55	233	0.47	0.10	0.05	23.416128	0.70	0.10	0.07	8,337	0.15	0.10	0.02
Washington Park	32	8	0.67	0.711909	0.72	0.70	0.51	355	0.74	0.10	0.07	27.672942	0.64	0.10	0.06	15,735	0.28	0.10	0.03
West Milwaukee Park	33	8	0.67	0.752883	0.77	0.70	0.54	170	0.34	0.10	0.03	10.799848	0.90	0.10	0.09	5,884	0.10	0.10	0.01
Kohl Park	34	8	0.67	0.762670	0.78	0.70	0.54	243	0.50	0.10	0.05	30.460202	0.59	0.10	0.06	8,831	0.16	0.10	0.02

Map of 2024 Equity Index Scores, Adjacency Model

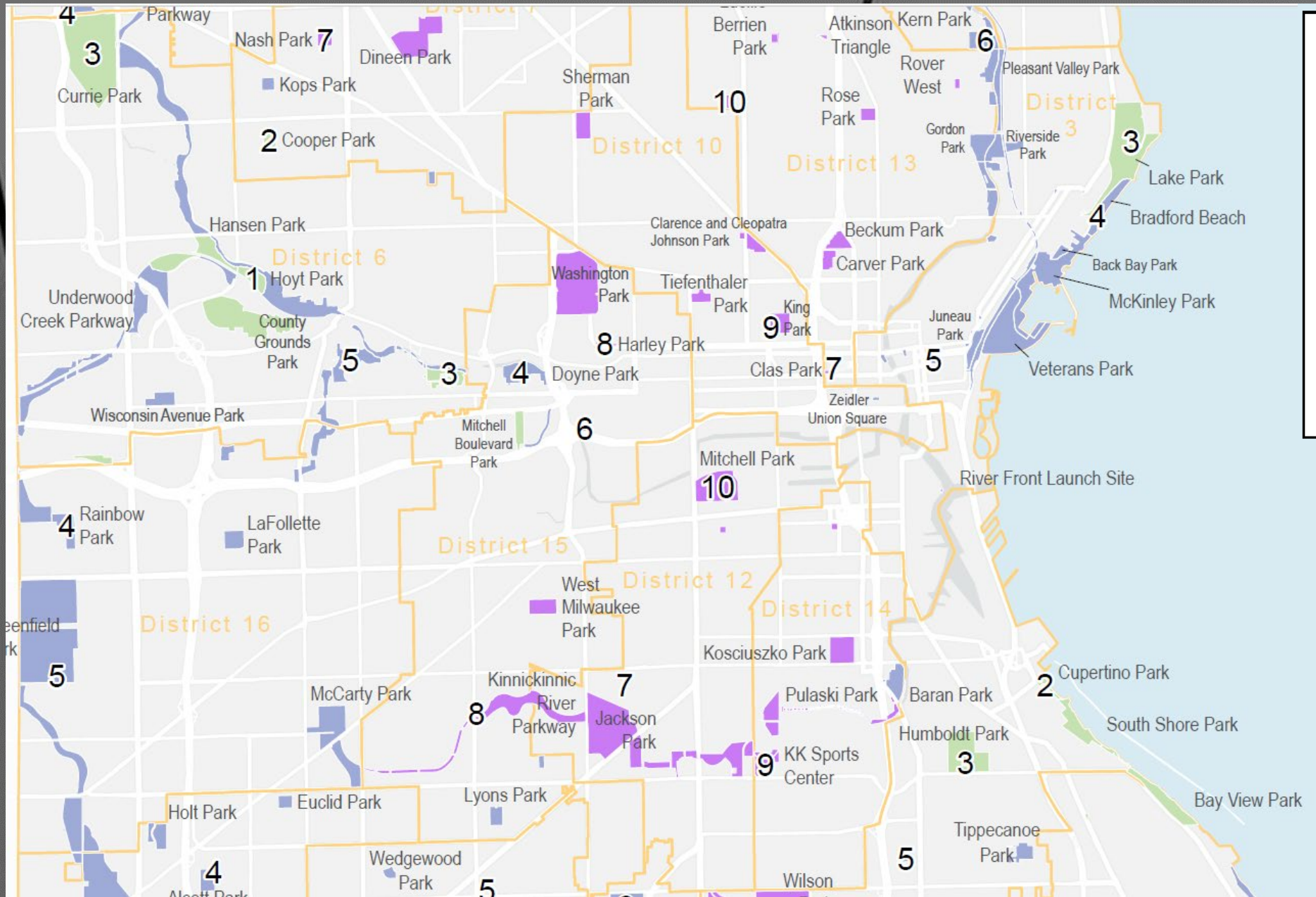


Milwaukee County Parks
Adjacency 2024 Equity Score (1-10)

- 1-3 (Green)
- 4-6 (Blue)
- 7-10 (Purple)
- Milwaukee Co Supervisory Districts (Orange Outline)

MILWAUKEE COUNTY **PARKS** 4/8/2024

Map of 2024 Equity Index Scores, Adjacency Model



Milwaukee County Parks
Adjacency 2024 Equity Score (1-10)

- 1-3 (Green)
- 4-6 (Blue)
- 7-10 (Purple)

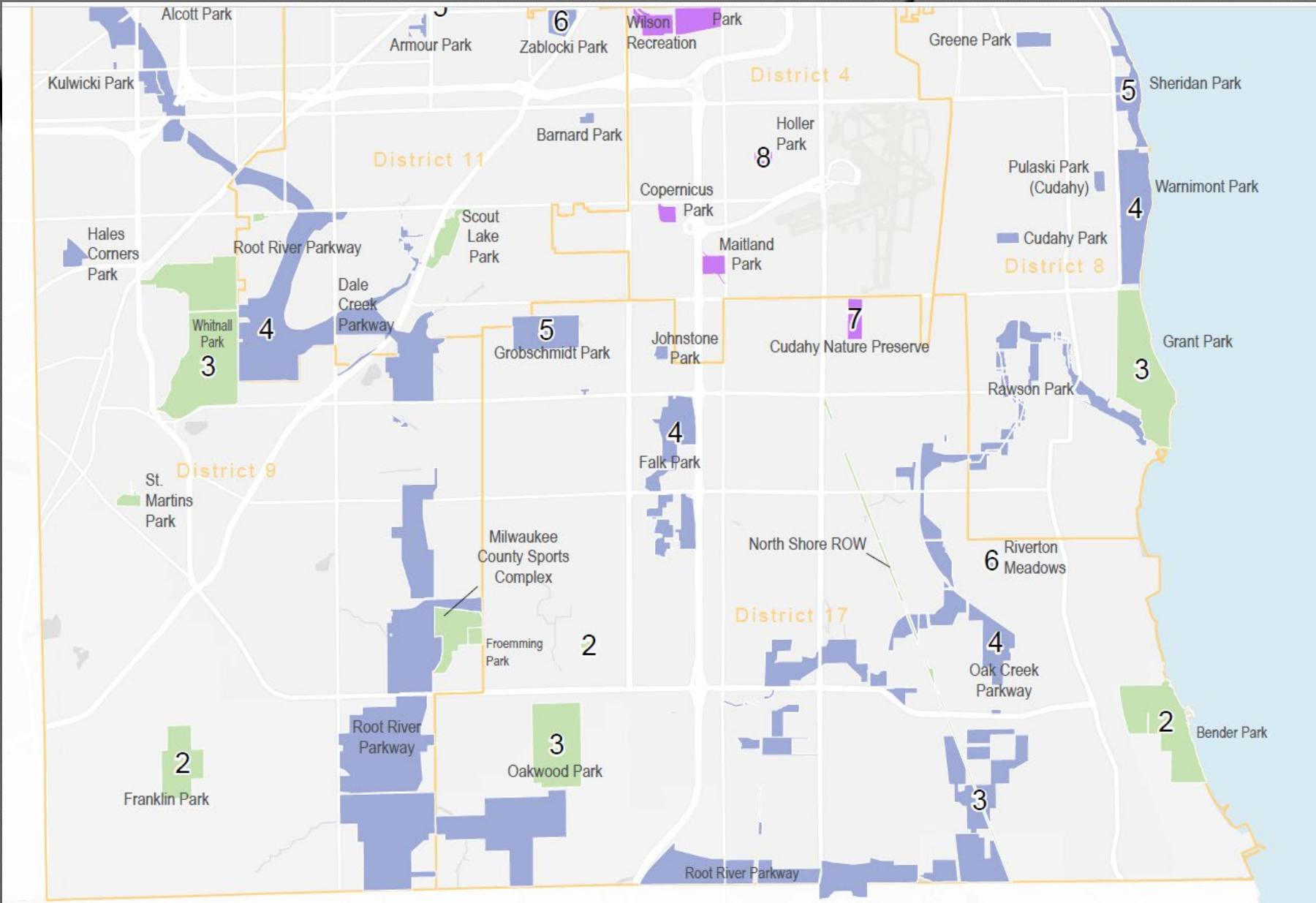
Milwaukee Co Supervisory Districts (Orange outline)

0 0.5 1 2 Miles

MILWAUKEE COUNTY PARKS

4/8/2024

Map of 2024 Equity Index Scores, Adjacency Model



Milwaukee County Parks

Adjacency 2024 Equity Score (1-10)

- 1-3
- 4-6
- 7-10

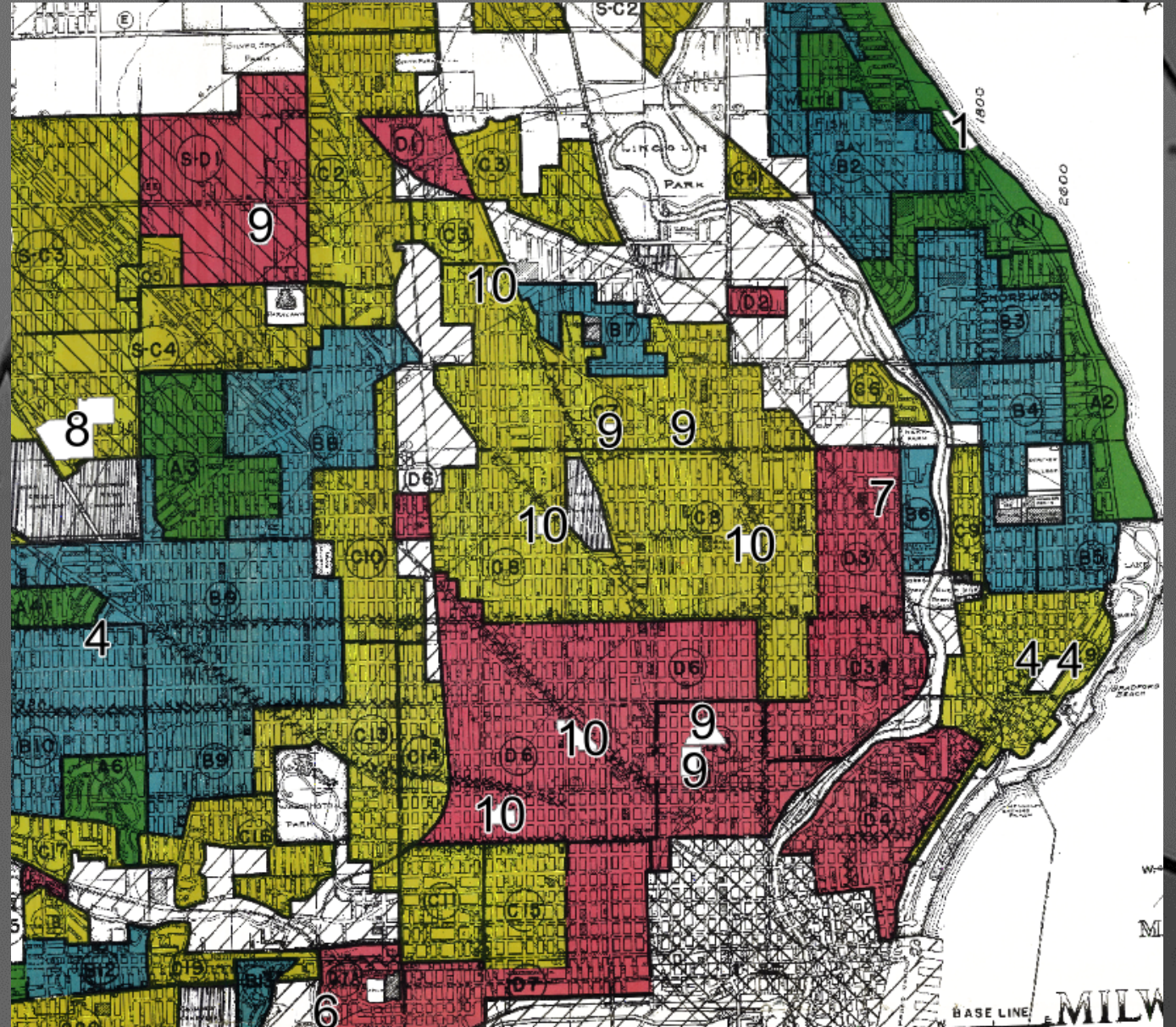
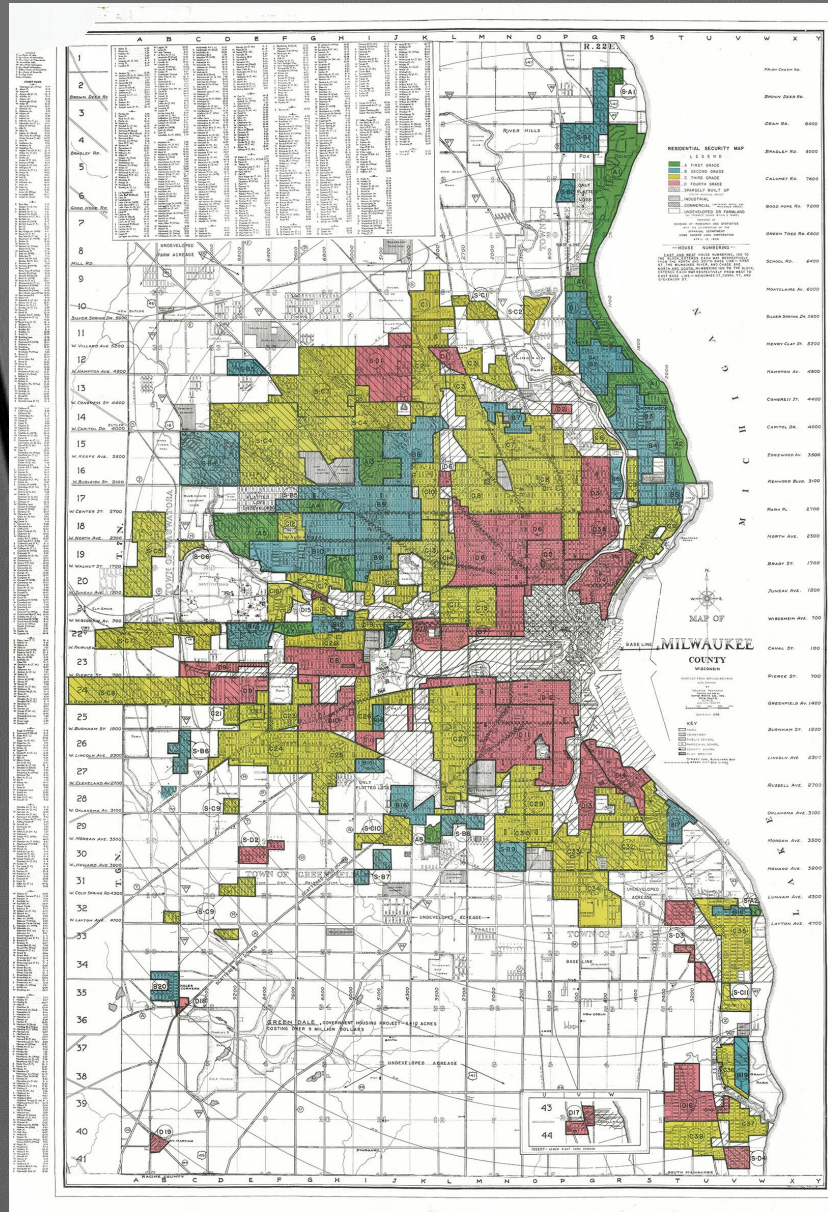
Milwaukee Co Supervisory Districts

0 0.5 1 2 Miles

MILWAUKEE COUNTY PARKS

4/8/2024

Residential Security Maps and Parks Equity Index



2024 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

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Current Improvements

- ❖ Updated data in all variables
- ❖ Added analysis from Trust for Public Land on 10-minute walk, amended for full system coverage.
- ❖ Created alternate adjacency model tool to evaluate each park as a neighborhood asset, versus park typology systemwide

Future Possibilities

- ❖ Heat mapping data
- ❖ Improvements to health data
- ❖ Industry trends

Q&A

Please share your thoughts and help us improve this tool!

