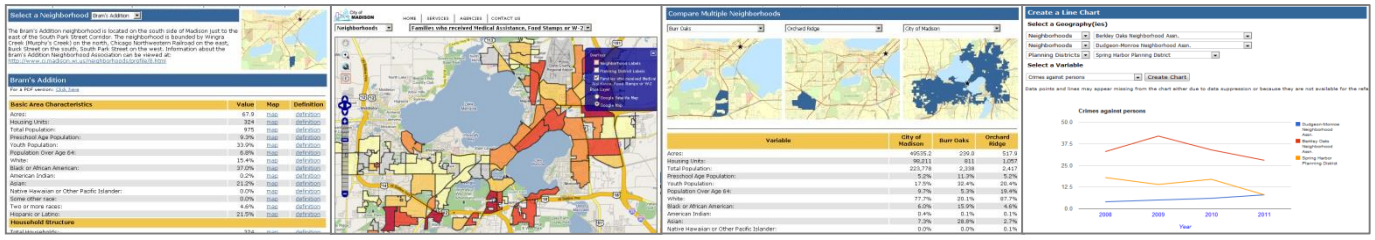
2014 Madison Neighborhood Indicators Report



April, 9 2014
Prepared by:
The University of Wisconsin
Applied Population Laboratory

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About Madison Neighborhood Indicators

The Madison Neighborhood Indicators project seeks to quantify the diverse and changing social conditions in Madison neighborhoods. The project staff works to provide up-to-date measures each year, bringing together data from a variety of sources and compiling them into a suite of variables used to generate neighborhood level reports. It is our hope that these data will afford insight into Madison's varied social landscape, helping to identify and highlight the presence of neighborhoods' assets as well as their needs.

The Indicators project is also an attempt to "democratize," or make readily available, data that already exist in some form but might otherwise remain difficult to use and access. Developments in mapping technology and electronic record-keeping have made it possible to evaluate and monitor conditions on a temporal and geographic scale that is relevant to residents, organizers and planners. These measures are not intended to substitute for the lived experience of neighborhood residents, but nonetheless, provide a means of quantifying a number of neighborhood attributes that data users regard as important when making comparisons.

Longtime Madison Alder Tim Bruer first proposed the development of a neighborhood indicators system in 2007. With the support of the Mayor's office and the City Council, a 2008 pilot study provided sample data for five Madison neighborhoods as a test of the feasibility and utility of a broader citywide undertaking that would include Madison Planning Districts, Neighborhood Associations and other tabulation areas. Full scale implementation began in 2008 and since then city advisors have managed the project's implementation in collaboration with the University of Wisconsin Applied Population Laboratory.

The project's development has been an iterative process wherein the project staff consulted with data managers, area specialists, residents, and external entities. The thrust of the effort has been to develop indicators that were in-line with the expressed needs of data users, while being consistently available at the requisite temporal and spatial scale. The Neighborhood Indicators project remains a work in progress. As we move forward, the steering group continues its effort to refine the acquisition, presentation, and distribution of neighborhood level data and to improve the overall quality and utility of indicator data. This *2014 Madison Neighborhood Indicators* report, the neighborhood summary reports, and the website referred to herein are available for public consideration, and the project steering group welcomes your feedback.

More information about APL and its involvement with this report is available at the addresses listed below:

Applied Population Laboratory
University of Wisconsin-Madison
1450 Linden Drive, Room 350
Madison, WI 53706
http://www.apl.wisc.edu/

2014 Executive Summary

The summary below offers a brief sketch of some recent changes at the city level but only begins to touch on the breadth of temporal and spatial variation across six years of data for the city's 158 primary tabulation areas. Because the project aim is to provide localized information about Neighborhood Association (NA) and Planning District (PD) geographies, the web-based tools are a preferred means to explore the variation across the city and over time.

Developments:

- This year's tabulation geographies include two Neighborhood Associations (NAs) that are presented this year for the first time: *Indian Springs* and *Cardinal Glenn.*
- The interactive map has a new background map and some of the navigational tools have been streamlined. Additionally, the on-click function has been modified to reveal individual neighborhood values for the item displayed on the map.
- The data sources and tabulation methods for several of the variables have been updated. Fire / EMS service calls are now summarized in a way that includes a 250 foot buffer area around the neighborhood. MMSD *Kindergarten Preparedness* and *High Mobility Student* data are tabulated using a different source and method than in previous years. The off-street *Bike Path Access* measure used previously was changed to *Bike Network Access.* The new measure excludes some smaller segments and includes some on-street facilities. More details are provided about the current tabulation methods in Appendix B.

Basic Area and Population Data:

- To view demographic variation across Madison, please refer to the descriptive statistics in Appendix A and the maps in Appendix C. The demographics section includes population counts and proportion tabulated by age, race/ethnicity, and household composition.

Community Action and Involvement:

- Voter turnout is tabulated only for the indicator years following a presidential election.

Housing Quality and Availability:

- Total number of *Community Pride Violations* decreased significantly across the City from 3,847 in 2012 to 3,072 in 2013. Among PDs the highest violation counts were primarily in regions of the isthmus, the south and the southwest.
- *Foreclosure* counts were not available at the time of printing.
- Units are unevenly dispersed throughout the city, and the ten PDs with the most units account for over 55% of the city's total 6,416 units. Eight districts had no units with assistance. The *Assisted Housing* source data were not updated this year so the 2014 indicator tallies show totals as of early 2013.
- Average assessed value of single family owner occupied housing units increased by over $7,000 for the city as a whole reversing a slight downward trend from the previous year. This

shift resulted in the number of PDs with a mean value of over $400,000 increasing from 3 to 4. The number of districts with mean values of under $200,000 stayed constant at 22.

Public Safety:

- Citywide *Crimes Against Persons* and *Crimes Against Society* both declined in 2013. *Crimes Against Property* remained constant. Geographic differences across PDs in each of the three categories can be discerned from the maps in Appendix C. Differences between PD counts are dependent in part on geocoding accuracy (See *Data Quality* below).
- The number of automobile crashes citywide declined slightly from 2013. Observed changes in counts at the PD and NA levels should be interpreted with caution, because crashes have especially poor geocoding success rates at the address level (38%).
- *Calls for EMS/Fire Service* declined slightly to 25,210 in 2013. The count was nearly 3% less than the previous year reversing what had been an upward trend in calls yearly.

Health and Family Well Being:

- The citywide *Kindergarten Preparedness* measure for 2014 was just over 85%. A change in data source for this measure means that it is not comparable with previous years' figures.
- The share of Madison Metropolitan School District (MMSD) students in households with parents who have less than a high school diploma declined to just over 6%. The share of students who have a parent with a college degree increased slightly to nearly 53%. Changes in these data items should be interpreted with care as they are not reported for all students.
- About 3,014 students were counted as *High Mobility* in 2014. A change in the tabulation method for this measure means that it is not comparable with previous years' figures.
- The number of PDs with over 75% of MMSD students identified as *Economically Disadvantaged* decreased slightly from 10 to 9. Citywide the percentage disadvantaged decreased by nearly 2 percentage points to just over 46%.
- Citywide the rate for *Full or Near Term Births* for the 2010-12 period remained the same as for the 2008-2011 period. Planning Districts with the lowest rates of full and near term births did not appear to cluster geographically.
- For the 2010-2012 period, the percentage of births classified as having had *Appropriate Care* was 93% citywide, an increase of nearly 2 percentage points over the 2008-10 period.

Economic Vitality Indicators:

- The American Community Survey continues to provide annually updated estimates, however when viewed at the census block group scale they are limited to averages over a 5-year span. This year's ACS estimates come from the 2009-2013 surveys. The coarse geographic scale and measurement error associated with these estimates makes them less-than-ideal for tracking neighborhood economic conditions. Still, they provide an informed estimate of some difficult to track conditions, so we have opted to include them among the other indicators.
- *Median Household Income* citywide was just under $53,500 according to 5-year ACS estimates from 2013. Estimated median incomes for PDs ranged from under $20,000 in student residential areas near campus to over $100,000 in several west side areas.

- According to 5-year ACS estimates for 2013, there were 4,613 *Families in Poverty* citywide, an estimated increase of 231 families over the previous year's 5-year estimate. The estimated family poverty rate was just over 9%. Poverty rates were highest in student districts, but Emerson-Eken, Marlborough and Truax PDs also had estimated rates of over 30% (See Appendix C).
- Planning Districts' *Unemployment* rate estimates ranged from 1% to 16%. The number of PD with unemployment estimates of 10% or greater increased from 10 to 12.
- Of the 62 PDs, 14 had fewer than 3 out of 5 basic goods and services (Hospitals, Pharmacies, Banking, Groceries, and Childcare) within a ¼ mile of the PD boundary.

Transportation Indicators:

- The share of a PD land area within ¼ mile of a bus stop, referred to as *Transit Stop Access*, ranged from below 10% on the far west PDs to over 90% in more central PDs. *Available Transit Service*, which reflects the number of bus trips to an area, shows a concentration of services in PDs nearer to downtown. Citywide the number of trips per week grew 2% from 12,202 to 12,468.
- According to the 2013 5-year ACS data, 4 PDs had *Household Vehicle Access* rates below 80%; though several were downtown and on UW Campus, this tally also included the more peripheral Lakeview PD.
- The *Bike Network Access* for dwelling units citywide was 87%. A change in source and tabulation method for this measure means that it is not comparable with previous years' figures. *Bike Access* rates were over 75% for 34 PDs. There were nine PDs on the far east and west sides that had access rates of less than 10%.
- Average *Pavement Condition* ratings ranged from 3.9 to 8.0 among PDs. The citywide average decreased slightly from 6.8 to 6.6.

Corrections and Updates:

The *Neighborhood Indicator* system is a work in progress. To ensure the indicators we include are comparable over time we aim to use consistent sources and methodologies whenever possible. However, at times we have identified ways to make our indicator tabulations more accurate and reliable. The *Definitions* link on the website provides users with information sourcing and methodological changes when they do occur.

Methodology

To be considered for inclusion in the project, potential indicators needed to be obtainable on an annual basis and available for small geographic units. To serve the needs expressed by prospective users, the steering group assembled a suite of variables that met these criteria. Most of the items were obtained locally, through government and other institutional providers. The remainder came from third party data sources, most significantly from the 2000 and 2010 Decennial Censuses and the American Community Survey; two widely used sources for small area demographic and economic data. While less current than some local data, these Federal data provide a useful demographic context to annually updated indicator data. Brief descriptions and source information for each item are provided in Appendix B.

Tabulation Geographies

The Neighborhood Indicators project provides data for Madison Planning Districts (PDs) and Neighborhood Associations (NAs) with estimated population and dwelling unit counts of 100 or greater each and a minimum area of 20 acres. Indicator data for areas under the size threshold are suppressed due to a combination of concerns related to residents' privacy, estimate reliability, and rate instability.

Most of the geographies presented in this report are consistent with their original boundaries; however, because many of the variables rely on City of Madison data providers, the PDs and NAs were in some cases "clipped," retaining only those portions of the tabulation geographies that lay within Madison city limits. Additional adjustments to the NA boundaries included removal of NAs that were nested within larger associations.

Whenever possible, the project relies on data from city and local agencies that are able to provide it at a very fine grain geographic detail. In many cases the summaries provided here are neighborhood-level aggregates of address, parcel, or dwelling unit data. When address-based data were unavailable, as was the case with several of the age, race, and household composition variables, APL derived PD and NA area estimates based on the 2010 Census and American Community Survey estimates at census block and block group geographic scales. Because Census geographies do not generally correspond to neighborhood boundaries, APL interpolated these estimates to the neighborhood geographies using area and population weights derived from the Census 2010 population.

The use of local PD and NA boundaries in lieu of more standard statistical geographies, such as zip codes or census tracts, poses numerous challenges. Despite these challenges, the project team concluded that the potential benefits of having finer grain data for more socially and administratively relevant geographic units justified the additional effort this required. The Madison indicators remains one of the only systems in the country where users can access data for geographic areas defined by the neighborhood associations themselves.

Neighborhood Comparisons

Because neighborhoods vary considerably in terms of their size, population, and other characteristics, users should be cautious when drawing comparisons across neighborhoods, especially with those indicators that have not been "normalized" as rates or percentages.

In cases where the appropriate "base" from which to calculate a rate or percentage is not self-evident, the reports show only counts. *Community Pride Violations* and *Crime Incidents* are examples of items shown only as counts. Depending on their needs, users might deem it appropriate to calculate a rate for these occurrences using counts per person, per dwelling unit, per acre, etc., each of which would produce a different result. In the case of these indicator items, the exclusion of rates from the report requires users to make an often-times complex and application-specific determination about the appropriate base from which to derive rates.

Data Quality

A degree of error is inherent in each of the tabulation methods employed. For this reason, users should treat the data provided as estimates. Three important sources of error are worth mentioning specifically:

- First, *geocoding error* occurs in the address data when they cannot be matched to an address on the map or when address matching systems position them inaccurately. In the *Crimes Against Society* data reported here, for instance, the geocoding match rate was 90%, meaning 90% of Madison incidents could be matched with confidence to a discrete geographic location. The remaining 10% are not reflected in the NA and PD level reports.
- A second significant source of error is *non-response bias*. An example of this is non-response to Madison Metropolitan School District (MMSD) surveys on parent educational attainment. As a result there is a significant degree of uncertainty in the MMSD household data provided for the educational attainment measures.
- The third noteworthy source of uncertainty is *sampling error*, which applies to the indicators derived from American Community Survey estimates. Although these items are similar to many of the demographic and housing estimates previously tallied in the Decennial Census long form, they are based on smaller sample size and thus do not provide the same degree of reliability. The geographic interpolation of those estimates from block group scale to neighborhood scale based on Census 2010 population weights, noted above, introduces an additional source of uncertainty.

Although these limitations demand a measure of caution in the use of some indicators, the project staff have conscientiously endeavored to provide the most reliable estimates possible in each instance.

Data Corrections and Versioning

In seven years of data production we have found ways to make our indicator tabulations more accurate and reliable. In order to improve the validity of the figures and maximize their year to year comparability, the neighborhood indicators steering group has elected to revise previously published counts whenever it is warranted and feasible. Although the previously released static documents (pdfs) may not always reflect these changes, the online system will include the most up-to-date figures available. Notes regarding these revisions and year to year inconsistencies will appear on the "definitions" link of the website.

Data Dissemination

This report serves as the project overview and provides a link to a citywide summary of all individual PDs and NAs; the website, however, is intended to serve as the principal means by which users access indicator data. In addition to an Adobe pdf version of this report, the website also serves as a source for individual print ready profiles in pdf format. More importantly, the site provides tools for tabular data comparisons, time-series graphing, and mapping of neighborhood characteristics.

The *Compare* tool allows users to make comparisons in the tabular data across time or across geographies. The *Chart* tool is designed to display changes over time and a maximum of three neighborhood geographies. The *Map* tool allows users to view neighborhood characteristics in the context of other neighborhoods as well as other geophysical attributes of interest, such as roads, lakes, and parks.

APL works to optimize the network, server, and software configurations for the system on an ongoing basis. Consequently, users may encounter delays and glitches as they interact with the system, particularly during periods of high volume web traffic. The APL staff appreciates feedback regarding such technical problems with the site; users should direct comments to apl_feedback@dces.wisc.edu.

NI Reporting Tools:

PDF Profile Sample

Madison Neighborhood Indicators 2014

Bluff Acres Neighborhood Assn.

Neighborhood Organization:
Information about the Bluff Acres Neighborhood Assn. can be found at:
http://www.cityofmadison.com/neighborhoods/profile/7.html

Aldermanic District:
The neighborhood is within district(s) 17 and is represented by Alders(s) Joseph R. Clausius.

Total Area: 442 Acres
Boundary change from previous year: No

Note: Any areas of a neighborhood boundary that lie outside the City of Madison are not included in the map or the table below.

The Madison Neighborhood Indicators project seeks to quantify the diverse and changing social conditions in Madison neighborhoods. The project staff has endeavored to provide up to date measures each year, bringing together data from a variety of sources and compiling them into a suite of variables used to generate neighborhood level profile reports.

To provide a demographic context to the year-to-year indicator data, a population profile sourced from U.S. decennial censuses of 2000 and 2010 is shown directly below. The annually updated indicators are shown on page two of the profile. Definitions for Census and 2014 indicator items can be found on pages three through six.

DEMOGRAPHIC PROFILE	Neighborhood				City of Madison	
	Census 2000		Census 2010		Census 2010	
	Number	Percent or Rate	Number	Percent or Rate	Number	Percent or Rate
Number of Housing Units	1,885	n/a	1,848	n/a	108,556	n/a
Owner Occupied Units	509	27.7%	674	38.5%	50,396	49.3%
Total Population	4,022	n/a	3,725	n/a	232,663	n/a
Age						
Young Children (Age 0 to 4)	221	5.0%	267	7.2%	13,535	5.8%
Youth Population (Age 0 to 17)	707	17.6%	681	18.3%	40,651	17.5%
Senior Population (Age 65 and Over)	236	5.9%	287	7.7%	22,336	9.6%
Race and Ethnicity						
White	3,139	78.0%	2,518	67.6%	175,995	75.6%
Black or African American	271	6.7%	352	9.5%	16,519	7.1%
Asian	169	4.2%	243	6.5%	17,047	7.3%
Other Races or Multiracial	135	3.4%	131	3.5%	7,158	3.1%
Hispanic or Latino	307	7.6%	480	12.9%	15,944	6.9%
Household Structure						
Total Households	1,840	n/a	1,748	n/a	102,252	n/a
Family Households	902	49.0%	876	50.1%	47,716	46.7%
Families with Children	386	21.0%	351	20.1%	21,320	20.9%
Female Headed Families with Children	101	5.5%	93	5.3%	5,403	5.3%

Annual reports, interactive maps, and neighborhood comparison tools are available online:
www.cityofmadison.com/ni

PDF Profile Sample (Continued)

INDICATORS	Neighborhood				City of Madison	
	2013		2014		2014	
	Number	Percent or Rate	Number	Percent or Rate	Number	Percent or Rate
HOUSING CHARACTERISTICS						
Madison Dwelling Units	1,927	n/a	1,927	n/a	108,526	n/a
Campus Dwelling Units	0	n/a	0	n/a	5,290	n/a
Community Pride Violations	19	n/a	26	n/a	3,072	n/a
Property Foreclosures	11	n/a	99	n/a	99	n/a
Assisted Housing Units	43	n/a	43	n/a	6,416	n/a
Average House Value	$176,811	n/a	$174,212	n/a	$240,319	n/a
Square Foot Value of Housing	$99	n/a	$98	n/a	$127	n/a
Median Year Built	1981	n/a	1981	n/a	1972	n/a
HEALTH & FAMILY WELL-BEING						
Kindergarten Preparedness [1,2,3]	Spr*	Spr*	Spr*	Spr*	4,782	85.5%
Parent Education Level: No High School Diploma/G.E.D. [1]	Spr*	Spr*	Spr*	Spr*	1,364	6.3%
Parent Education Level: College Graduate [1]	Spr*	Spr*	Spr*	Spr*	11,407	52.6%
High Mobility Students [1,2]	Spr*	Spr*	Spr*	Spr*	3,049	15.0%
Economically Disadvantaged Students [1]	Spr*	Spr*	Spr*	Spr*	11,007	46.4%
Infant Health: Term or Near Term Births [3]	n/a	n/a	Spr*	Spr*	8,276	98.2%
Maternal Health: 3yr Appropriate Care [3]	n/a	n/a	Spr*	Spr*	7,177	93.1%
COMMUNITY ACTION & INVOLVEMENT						
Registered Voter Turn-Out			n/a	n/a	n/a	n/a
ECONOMIC VITALITY						
Median Household Income [3]	$48,553	n/a	$46,181	n/a	$53,464	n/a
Families in Poverty [3]	42	4.3%	39	4.3%	4,613	9.3%
Unemployment [3]	270	9.9%	360	13.0%	9,256	6.3%
Basic Goods & Svcs (Hospital, Pharmacy, Bank/CU, Grocery, Childcare)	B,G,C	n/a	G	n/a	H,P,B,G,C	n/a
PUBLIC SAFETY INDICATORS						
Crimes Against Persons	37	n/a	35	n/a	1,767	n/a
Crimes Against Property	118	n/a	132	n/a	9,582	n/a
Crimes Against Society	128	n/a	172	n/a	9,474	n/a
Crashes	72	n/a	61	n/a	10,897	n/a
Calls for EMS/Fire Service [2]	315	n/a	392	n/a	25,210	n/a
TRANSPORTATION						
Transit Stop Access	n/a	97.1%	n/a	97.1%	n/a	63.7%
Available Transit Service	325	0.17	350	0	12,468	0
Households with Access to a Vehicle [3]	1,641	89.6%	1,628	88.8%	90,051	87.2%
Bike Network Access [2]	1,927	100.0%	1,927	100.0%	92,040	80.9%
Pavement Condition	7.2	n/a	6.6	n/a	6.6	n/a

Notes:

Time series data: In some instances year to year variation in counts and rates will reflect changes in the variable definition, geocoding success, or neighborhood boundaries. Data definitions for previous years can be found here: http://madison.apl.wisc.edu/definitions.php

1: Student and parent education data are from the Madison Metropolitan School District and show figures for MMSD students or students' households as available; in some instances these represent only a subset of the MMSD student population. See definitions for details.

2: Current year data source or tabulation method is different from previous year. See definitions for details.

3: Multi-year estimate. See definitions for details.

n/a: Cells containing "n/a" indicate that the rate or figure is not applicable or not available for the reference year.

spr*: Cells containing "spr*" indicate that data have been suppressed to protect confidentiality. This means there was a count of five or fewer in the category shown or five or fewer in the counterpart of the category shown, the latter being derivable from the percentage. Correspondence between some neighborhood associations and planning district geographies required suppression of these data for neighborhood geographies.

Web Profile

City of MADISON

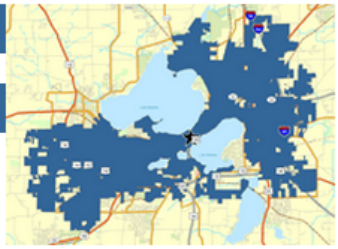
Home | Profiles | Map | Chart | Compare | Find District | PDF Reports | Definitions | Contact | Help | About

Madison Neighborhood Associations

City of Madison

Madison Planning Districts

Select a Planning District



City of Madison

Geography	2014	Map	Chart	Definition
Acres	50,120	map	chart	definition
Boundary Change	No	n/a	n/a	definition

Demographic Profile	2000	2010	Map	Chart	Definition
Housing units	93,051	108,556	map	chart	definition
Owner occupied units	47.5%	49.3%	map	chart	definition
Total population	208,859	232,663	map	chart	definition
Age 4 and under	5.0%	5.8%	map	chart	definition
Age 17 and under	17.9%	17.5%	map	chart	definition
Age 65 and over	9.2%	9.6%	map	chart	definition
White	81.9%	75.6%	map	chart	definition
African American	5.8%	7.1%	map	chart	definition
Asian	5.8%	7.3%	map	chart	definition
Other races or multiracial	2.4%	3.1%	map	chart	definition
Hispanic/Latino (of any race)	4.1%	6.9%	map	chart	definition
Total households	89,574	102,252	map	chart	definition
Family households	42,709	47,716	map	chart	definition
Families with children	22.1%	20.9%	map	chart	definition
Female headed households with children	5.0%	5.3%	map	chart	definition

Indicators	2014	Map	Chart	Definition
Community Action and Involvement				
Registered voter turnout	n/a			definition
Housing Quality and Availability				
Madison dwelling units	108,526	map	chart	definition
Campus dwelling units	5,290	map	chart	definition
Community pride violations	3,072	map	chart	definition
Property foreclosures	99	map	chart	definition
Assisted housing units	6,416	map	chart	definition
Average house value	$240,319	map	chart	definition
Square foot value of housing	$127	map	chart	definition
Median year built	1972	map	chart	definition

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Web Comparison

City of MADISON

Home | Profiles | Map | Chart | Compare | Find District | PDF Reports | Definitions | Contact | Help | About

Compare Multiple Geographies and Years

2014 City of Madison | 2014 Bay Creek Neighborhood Assn. | 2014 Tenny Park Planning District

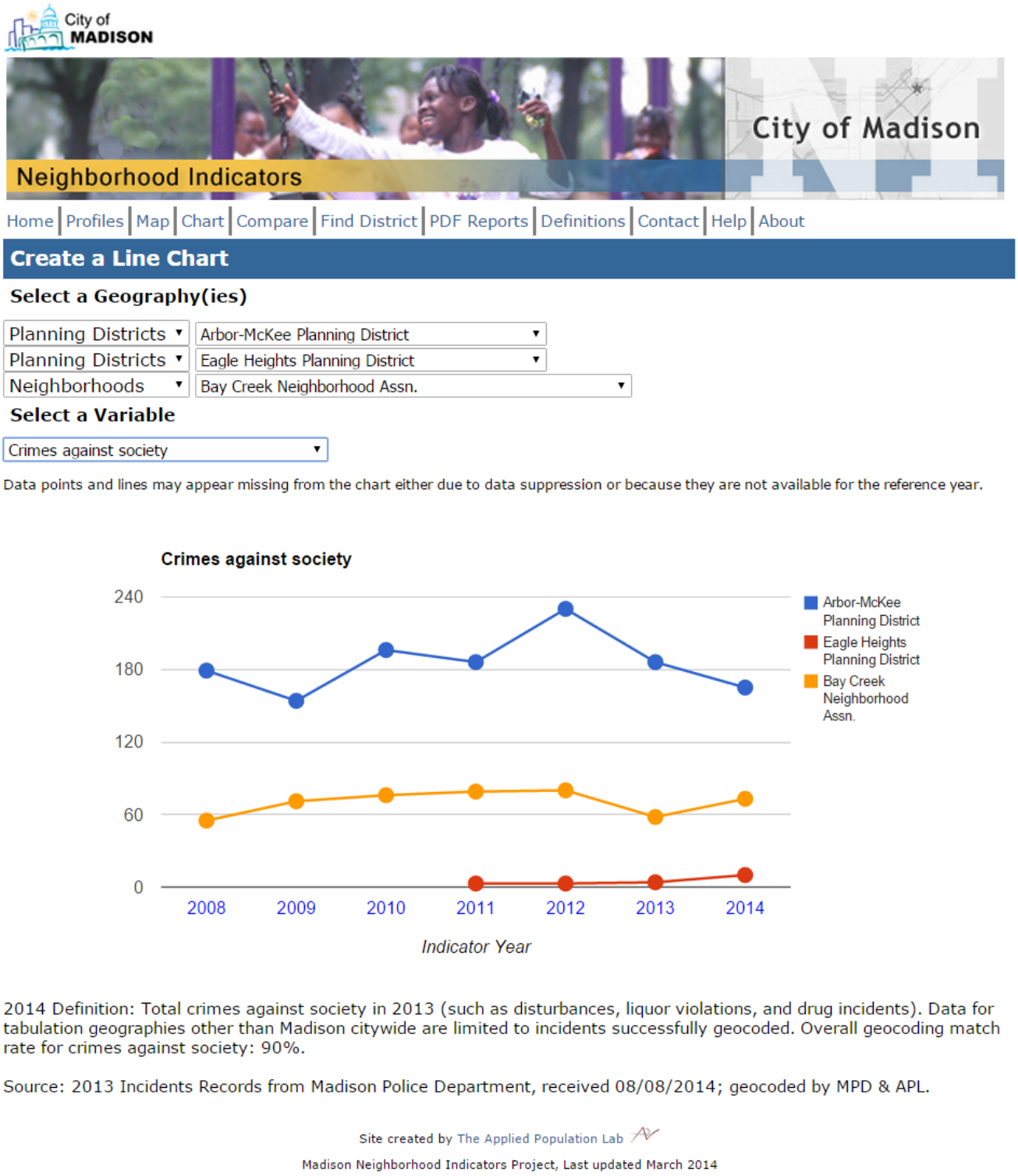
Geography	City of Madison	Bay Creek Neighborhood Assn.	Tenny Park Planning District
Acres	50,120	368	367
Boundary Change	No	No	No

Census 2010 Demographic Profile	City of Madison	Bay Creek Neighborhood Assn.	Tenny Park Planning District
Housing units	108,556	1,316	2,933
Owner occupied units	49.3%	44.9%	26.7%
Total population	232,663	2,401	5,262
Age 4 and under	5.8%	4.8%	3.5%
Age 17 and under	17.5%	14.8%	10.4%
Age 65 and over	9.6%	11.1%	3.5%
White	75.6%	83.6%	83.9%
African American	7.1%	5.0%	5.7%
Asian	7.3%	2.7%	2.5%
Other races or multiracial	3.1%	4.2%	2.6%
Hispanic/Latino (of any race)	6.9%	4.6%	5.2%
Total households	102,252	1,266	2,762
Family households	47,716	494	711
Families with children	20.9%	15.7%	10.7%
Female headed households with children	5.3%	3.2%	3.6%

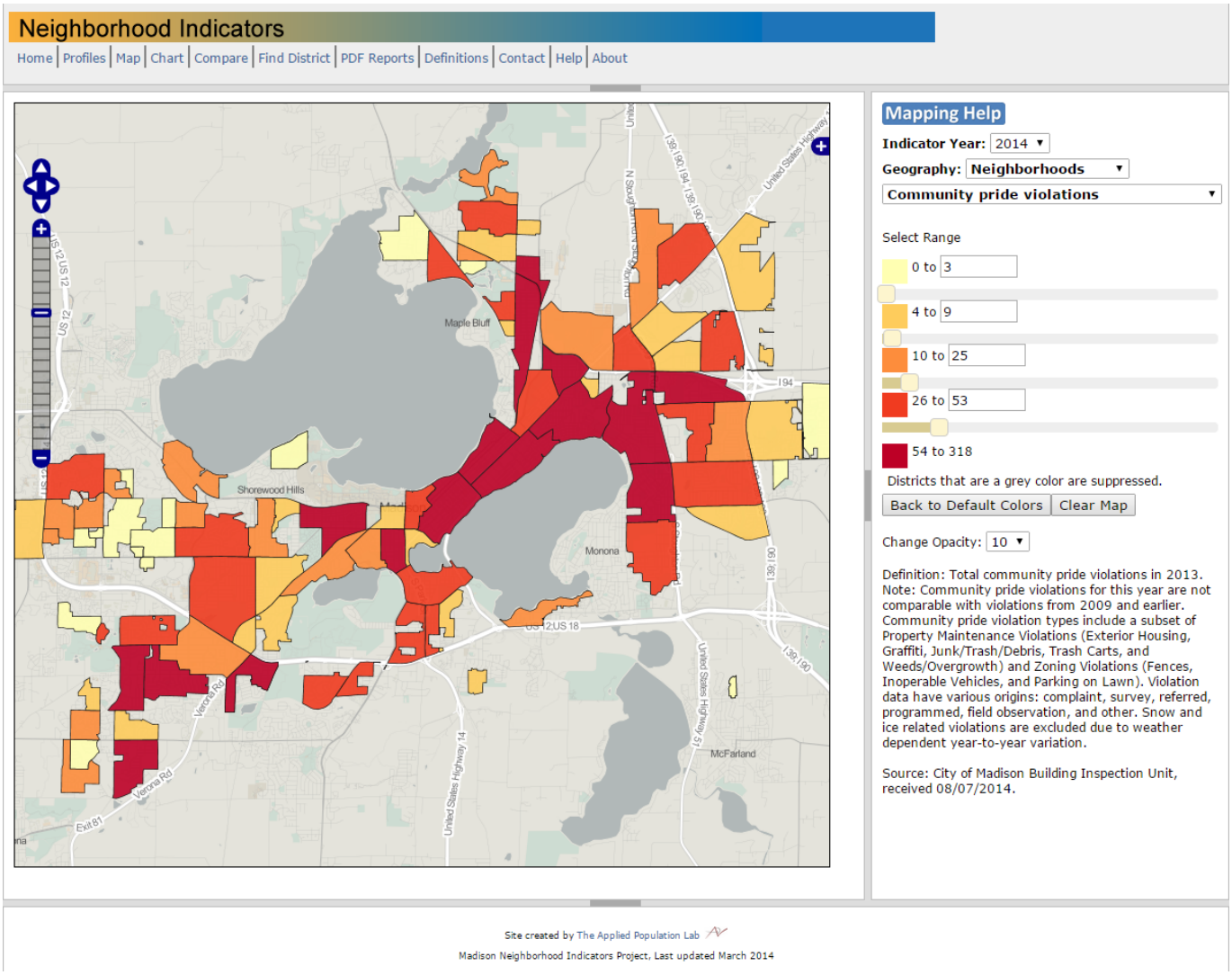
Indicators	City of Madison	Bay Creek Neighborhood Assn.	Tenny Park Planning District
Community Action and Involvement			
Registered voter turnout	n/a	n/a	n/a
Housing Quality and Availability			
Madison dwelling units	108,526	1,325	3,389
Campus dwelling units	5,290	0	0
Community pride violations	3,072	27	114

(image truncated)

Web Charting



Web Mapping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Maple Bluff
Shorewood Hills
Monona
McFarland
Mapping Help
Indicator Year: 2014
Geography: Neighborhoods
Community pride violations
Select Range
0 to 3
4 to 9
10 to 25
26 to 53
54 to 318
Districts that are a grey color are suppressed.
Back to Default Colors
Clear Map
Change Opacity: 10
Definition: Total community pride violations in 2013. Note: Community pride violations for this year are not comparable with violations from 2009 and earlier. Community pride violation types include a subset of Property Maintenance Violations (Exterior Housing, Graffiti, Junk/Trash/Debris, Trash Carts, and Weeds/Overgrowth) and Zoning Violations (Fences, Inoperable Vehicles, and Parking on Lawn). Violation data have various origins: complaint, survey, referred, programmed, field observation, and other. Snow and ice related violations are excluded due to weather dependent year-to-year variation.
Source: City of Madison Building Inspection Unit, received 08/07/2014.
Site created by The Applied Population Lab
Madison Neighborhood Indicators Project, Last updated March 2014

Appendix A.

Descriptive Statistics: Planning Districts

	Madison (2014 Bndry)		Planning Districts (2014 Boundaries)							
	Census 2000	Census 2010	Census 2000				Census 2010			
			Mean	Min.	Max.	Std. Dev.	Mean	Min.	Max.	Std. Dev.
Number of Housing Units	93,051	108,556	1,492	21	5,673	1,056	1,793	100	6,652	1,203
Owner Occupied Units - Number	42,563	50,396	682	9	2,000	495	829	0	2,300	510
Owner Occupied Units - Percent	47.5%	49.3%	54.3%	0.8%	98.2%	25.9%	55.1%	0.0%	97.5%	24.1%
Total Population	208,859	232,663	3,350	43	15,687	2,528	3,849	208	16,318	2,666
Age										
Preschool Age Population (Age 0 to 4) - Number	10,873	13,535	174	0	463	123	227	2	814	171
Preschool Age Population (Age 0 to 4) - Percent	5.2%	5.8%	5.6%	0.2%	15.3%	2.8%	6.3%	0.0%	13.4%	2.8%
Youth Population (Age 0 to 17) - Number	37,453	40,651	601	6	1,732	424	681	15	2,425	478
Youth Population (Age 0 to 17) - Percent	17.9%	17.5%	19.6%	0.5%	38.5%	7.3%	19.1%	0.2%	34.5%	7.3%
Population Age 65 and Over - Number	19,266	22,336	309	6	1,379	254	367	7	969	234
Population Age 65 and Over - Percent	9.2%	9.6%	11.0%	0.2%	44.4%	7.6%	11.7%	0.2%	48.6%	8.5%
Race and Ethnicity										
White - Number	170,988	175,995	2,741	43	13,338	2,167	2,886	166	13,196	2,111
White - Percent	81.9%	75.6%	83.5%	27.8%	100.0%	13.8%	75.5%	24.1%	94.6%	14.5%
Black or African American - Number	12,123	16,519	195	0	1,235	227	282	7	1,633	305
Black or African American - Percent	5.8%	7.1%	5.6%	0.0%	33.6%	6.5%	7.2%	0.9%	33.7%	6.5%
Asian -Number	12,010	17,047	193	0	1,412	275	284	12	1,564	347
Asian - Percent	5.8%	7.3%	4.9%	0.0%	50.6%	7.0%	7.1%	0.5%	52.0%	7.3%
Other Race or Multiracial - Number	5,081	7,158	82	0	308	62	118	7	450	83
Other Race or Multiracial - Percent	2.4%	3.1%	2.3%	0.0%	6.0%	1.1%	3.0%	0.8%	6.1%	1.0%
Hispanic or Latino - Number	8,656	15,944	139	0	836	147	279	6	1,820	296
Hispanic or Latino - Percent	4.1%	6.9%	3.7%	0.0%	19.8%	3.0%	7.1%	1.4%	28.5%	5.9%
Household Structure										
Total Households	89,574	102,252	1,436	21	5,480	1,028	1,687	82	6,287	1,129
Family Households - Number	42,709	47,716	684	12	1,821	438	792	32	2,293	474
Family Households - Percent	47.7%	46.7%	54.4%	4.2%	83.3%	17.3%	51.5%	2.2%	77.3%	16.2%
Families with Children - Number	19,772	21,320	317	3	898	221	355	2	1,150	242
Families with Children - Percent	22.1%	20.9%	24.6%	0.3%	52.5%	10.1%	23.2%	0.1%	46.9%	9.8%
Female headed families with children - Number	4,491	5,403	72	0	191	60	91	2	423	78
Female headed families with children - Percent	5.0%	5.3%	5.2%	0.0%	20.2%	3.9%	5.8%	0.1%	21.3%	4.0%

(table continued below)

Descriptive Statistics: Planning Districts (Continued from above)

	Madison		Planning Districts							
	2013	2014	2013				2014			
			Mean	Min.	Max.	Std. Dev.	Mean	Min.	Max.	Std. Dev.
Acres	50,091	50,120	662	247	2,350	340	663	247	2,350	340
Housing Characteristics										
Madison Dwelling Units*	108,101	108,526	1,740	51	6,518	1,177	1,747	51	6,402	1,174
Campus Dwelling Units	5,189	5,290	84	0	1,981	359	85	0	2,018	366
Community Pride Violations	3,847	3,072	62	0	467	80	49	0	232	47
Property Foreclosures	474	n/a	8	0	29	6	n/a	n/a	n/a	n/a
Assisted Housing Units	6,416	6,416	103	0	600	134	103	0	600	134
Average house value	$ 232,926	$ 240,319	$243,289	$128,461	$522,647	$ 84,343	$250,316	$129,700	$541,756	$ 87,610
Square foot value of housing	$ 124	$ 127	$ 125	$ 92	$ 191	$ 26	$ 128	$ 92	$ 201	$ 28
Median year built	1972	1972	1972	1917	2011	24	1972	1917	2011	23
Health & Family Well-Being										
Kindergarten Preparedness - Number	7,894	4,782	127	0	480	102	80	0	252	58
Kindergarten Preparedness - Percent	61.3%	85.5%	63.8%	21.5%	100.0%	19.7%	88.0%	65.2%	100.0%	10.4%
Parent Education Level: No H.S. Diploma/G.E.D. - Num.	1,326	1,364	21	0	153	30	25	0	222	40
Parent Education Level: No H.S. Diploma/G.E.D. - Pct.	7.2%	6.3%	5.9%	0.0%	27.0%	6.7%	5.5%	0.0%	23.0%	6.3%
Parent Education Level: College Graduate - Number	9,496	11,407	153	0	603	128	187	0	747	156
Parent Education Level: College Graduate - Percent	51.4%	52.6%	56.3%	0.0%	100.0%	28.0%	57.0%	0.0%	100.0%	27.7%
High mobility students - Number	1,287	3,049	21	0	78	20	51	0	239	52
High mobility students - Percent	5.9%	15.0%	6.0%	0.0%	22.0%	4.8%	13.6%	0.0%	50.0%	8.8%
Economically Disadvantaged Students - Number	10,514	11,007	169	0	696	171	190	0	1,223	229
Economically Disadvantaged Students - Percent	48.2%	46.4%	43.0%	0.0%	100.0%	28.0%	40.8%	0.0%	92.8%	27.2%
Infant Health: Term or Near Term Births - Percent	n/a	98.2%	n/a	n/a	n/a	n/a	98.5%	93.9%	100.0%	1.6%
Maternal Health: Appropriate Care - Percent	n/a	93.1%	n/a	n/a	n/a	n/a	91.9%	78.1%	100.0%	4.7%
Community Action & Involvement										
Voter Turnout (2012 Presidential Election)	146,558	n/a	2,359	136	11,313	1,753	n/a	n/a	n/a	n/a
Voter Turnout as a percentage of registered voters	86.4%	n/a	87.7%	76.6%	92.5%	3.7%	n/a	n/a	n/a	n/a
Economic Vitality										
Median household income	$53,958	$53,464	$61,760	$14,224	$110,517	$21,184	$61,790	$14,538	$112,956	$21,811
Families in poverty (among families) - Number	4,382	4,613	68	0	328	75	76	0	403	89
Families in poverty (among families) - Percent	8.9%	9.3%	10.1%	0.0%	72.6%	13.6%	10.5%	0.0%	95.6%	15.1%
Unemployment - Number	8,939	9,256	140	4	811	124	155	2	834	146
Unemployment - Percent	6.2	6.3	6.1	1.4	14.3	3.1	6.4	0.7	15.6	3.5
Public Safety										
Crimes against persons	2,058	1,767	30	0	204	35	24	0	151	30
Crimes against property	9,582	9,582	135	0	773	148	134	3	784	153
Crimes against society	10,467	9,474	146	1	1,482	224	130	2	830	167
Crashes	11,202	10,897	71	2	267	64	60	0	274	56
Calls for EMS / fire service	25,927	25,210	392	5	1,858	336	464	9	2,326	391
Transportation										
Transit Stop Access - Percent	63.1%	63.7%	84.5%	0.0%	100.0%	24.0%	75.6%	0.0%	100.0%	28.1%
Available Transit Service - Trips	12,200	12,468	1,457	0	7,019	1,627	1,473	0	7,129	1,636
Available Transit Service - Rate	0.1	0.1	0.8	0.0	5.3	0.9	0.9	0.0	5.4	1.0
Households with access to a vehicle - Number	88,864	90,051	1,427	76	3,578	790	1,487	83	3,763	861
Households with access to a vehicle - Percent	87.6%	87.2%	90.5%	50.0%	100.0%	9.9%	90.4%	43.8%	100.0%	10.4%
Bike Path Access - Number*	107,153	92,040	1,725	0	8,113	1,340	1,482	0	8,034	1,381
Bike Path Access - Percent*	94.6%	80.9%	89.3%	0.0%	100.0%	22.9%	71.1%	0.0%	100.0%	35.2%
Pavement Condition	6.8	6.6	6.8	4.2	8.2	0.7	6.6	3.9	8.0	0.8

* Observed year-to-year differences may result from changes in data sourcing or calculation methods

Descriptive Statistics: Neighborhood Associations

	Madison (2014 Bndry)		Neighborhood Associations (2014 Boundaries)							
	Census 2000	Census 2010	Census 2000				Census 2010			
			Mean	Min.	Max.	Std. Dev.	Mean	Min.	Max.	Std. Dev.
Number of Housing Units	93,051	108,556	808	0	6,388	858	936	56	8,003	1,018
Owner Occupied Units - Number	42,563	50,396	384	0	1,544	356	443	0	1,539	356
Owner Occupied Units - Percent	47.5%	49.3%	59.0%	0.5%	98.9%	28.1%	60.1%	0.0%	99.6%	26.3%
Total Population	208,859	232,663	1,842	1	12,342	1,879	2,039	119	13,844	2,048
Age										
Preschool Age Population (Age 0 to 4) - Number	10,873	13,535	96	0	419	82	117	0	678	106
Preschool Age Population (Age 0 to 4) - Percent	5.2%	5.8%	6.2%	0.0%	15.6%	3.1%	6.5%	0.0%	18.6%	3.0%
Youth Population (Age 0 to 17) - Number	37,453	40,651	339	0	1,066	273	364	0	2,014	307
Youth Population (Age 0 to 17) - Percent	17.9%	17.5%	21.7%	0.0%	41.8%	8.4%	20.8%	0.0%	42.6%	8.1%
Population Age 65 and Over - Number	19,266	22,336	167	0	854	176	186	2	720	169
Population Age 65 and Over - Percent	9.2%	9.6%	11.0%	0.2%	98.7%	11.3%	11.4%	0.2%	97.9%	11.1%
Race and Ethnicity										
White - Number	170,988	175,995	1,509	1	10,294	1,617	1,538	100	11,346	1,647
White - Percent	81.9%	75.6%	82.0%	24.9%	100.0%	16.5%	74.1%	20.1%	98.3%	17.3%
Black or African American - Number	12,123	16,519	109	0	883	168	154	0	1,310	215
Black or African American - Percent	5.8%	7.1%	6.4%	0.0%	39.8%	8.0%	8.4%	0.0%	47.0%	9.3%
Asian -Number	12,010	17,047	105	0	1,398	194	137	1	1,399	220
Asian - Percent	5.8%	7.3%	5.2%	0.0%	52.1%	6.9%	6.8%	0.5%	52.9%	7.0%
Other Race or Multiracial - Number	5,081	7,158	45	0	277	47	63	0	374	62
Other Race or Multiracial - Percent	2.4%	3.1%	2.4%	0.0%	6.9%	1.3%	3.2%	0.2%	12.0%	1.6%
Hispanic or Latino - Number	8,656	15,944	73	0	600	96	147	0	1,617	209
Hispanic or Latino - Percent	4.1%	6.9%	4.0%	0.0%	24.7%	4.0%	7.5%	0.3%	34.0%	6.1%
Household Structure										
Total Households	89,574	102,252	782	0	6,209	834	885	54	7,299	945
Family Households - Number	42,709	47,716	378	0	1,242	297	420	16	1,786	315
Family Households - Percent	47.7%	46.7%	57.9%	3.3%	94.9%	18.9%	56.0%	1.9%	84.7%	16.9%
Families with Children - Number	19,772	21,320	177	0	569	143	188	0	934	153
Families with Children - Percent	22.1%	20.9%	27.6%	0.0%	62.0%	12.3%	25.8%	0.0%	57.8%	10.9%
Female headed families with children - Number	4,491	5,403	39	0	189	42	48	0	343	54
Female headed families with children - Percent	5.0%	5.3%	5.4%	0.0%	27.6%	4.9%	6.8%	0.0%	43.9%	6.5%

(table continued below)

Descriptive Statistics: Neighborhood Associations *(Continued from above)*

	Madison		Neighborhood Associations							
	2013	2014	2013				2014			
			Mean	Min.	Max.	Std. Dev.	Mean	Min.	Max.	Std. Dev.
Acres	50,091	50,120	273	20	857	192	270	20	857	191
Housing Characteristics										
Madison Dwelling Units*	108,101	108,526	916	51	8,090	988	902	51	8,014	986
Campus Dwelling Units	5,189	5,290	34	0	1,601	213	35	0	1,632	216
Community Pride Violations	3,847	3,072	38	0	543	67	30	0	318	42
Property Foreclosures	474	n/a	4	0	16	4	n/a	n/a	n/a	n/a
Assisted Housing Units	6,416	6,416	54	0	744	112	53	0	744	112
Average house value	$ 232,926	$ 240,319	$226,647	$113,501	$538,616	$ 89,003	$233,641	$115,803	$557,001	$ 92,715
Square foot value of housing	$ 124	$ 127	$ 119	$ 82	$ 193	$ 26	$ 122	$ 82	$ 201	$ 28
Median year built	1972	1972	1970	1914	2005	22	1970	1916	2010	22
Health & Family Well-Being										
Kindergarten Preparedness - Number	7,894	4,782	72	0	300	66	42	0	206	40
Kindergarten Preparedness - Percent	61.3%	85.5%	61.6%	16.3%	100.0%	21.6%	87.6%	51.7%	100.0%	11.4%
Parent Education Level: No H.S. Diploma/G.E.D. - Num.	1,326	1,364	12	0	104	21	14	0	192	29
Parent Education Level: No H.S. Diploma/G.E.D. - Pct.	7.2%	6.3%	6.0%	0.0%	48.9%	8.2%	5.5%	0.0%	39.3%	7.4%
Parent Education Level: College Graduate - Number	9,496	11,407	86	0	410	86	103	0	460	103
Parent Education Level: College Graduate - Percent	51.4%	52.6%	53.9%	0.0%	100.0%	28.5%	55.6%	4.3%	100.0%	28.6%
High mobility students - Number	1,287	3,049	11	0	69	14	28	0	211	35
High mobility students - Percent	5.9%	15.0%	5.1%	0.0%	25.2%	4.5%	13.7%	0.0%	37.4%	8.5%
Economically Disadvantaged Students - Number	10,514	11,007	93	0	496	114	102	0	1,020	154
Economically Disadvantaged Students - Percent	48.2%	46.4%	44.9%	0.0%	100.0%	29.7%	42.3%	0.0%	92.8%	29.0%
Infant Health: Term or Near Term Births - Percent	n/a	98.2%	n/a	n/a	n/a	n/a	98.3%	83.3%	100.0%	2.4%
Maternal Health: Appropriate Care - Percent	n/a	93.1%	n/a	n/a	n/a	n/a	90.5%	66.7%	100.0%	7.1%
Community Action & Involvement										
Voter Turnout (2012 Presidential Election)	146,558	n/a	1,282	22	8,964	1,346	n/a	n/a	n/a	n/a
Voter Turnout as a percentage of registered voters	86.4%	n/a	88.4%	76.8%	95.7%	4.1%	n/a	n/a	n/a	n/a
Economic Vitality										
Median household income	$53,958	$53,464	$60,829	$9,548	$130,989	$22,936	$60,840	$9,435	$126,569	$23,390
Families in poverty (among families) - Number	4,382	4,613	37	0	257	48	41	0	355	58
Families in poverty (among families) - Percent	8.9%	9.3%	11.5%	0.0%	74.4%	14.8%	12.0%	0.0%	100.0%	15.8%
Unemployment - Number	8,939	9,256	78	1	616	92	84	0	525	99
Unemployment - Percent	6.2	6.3	6.9	0.1	25.0	4.7	7.1	0.0	22.4	4.5
Public Safety										
Crimes against persons	2,058	1,767	17	0	172	27	14	0	202	25
Crimes against property	9,582	9,582	69	0	768	100	67	1	849	105
Crimes against society	10,467	9,474	86	0	1,134	174	74	0	1,067	135
Crashes	11,202	10,897	35	0	369	48	29	0	310	40
Calls for EMS / fire service	25,927	25,210	202	2	2,532	293	262	3	3,016	344
Transportation										
Transit Stop Access - Percent	63.1%	63.7%	84.5%	0.0%	100.0%	24.0%	83.8%	0.0%	100.0%	25.3%
Available Transit Service - Trips	12,200	12,468	1,035	0	6,904	1,303	1,035	0	7,024	1,304
Available Transit Service - Rate	0.1	0.1	1.3	0.0	5.6	1.1	1.3	0.0	5.6	1.2
Households with access to a vehicle - Number	88,864	90,051	745	51	4,378	640	764	56	4,666	695
Households with access to a vehicle - Percent	87.6%	87.2%	90.3%	36.8%	100.0%	10.8%	90.0%	35.4%	100.0%	10.9%
Bike Path Access - Number*	107,153	92,040	900	8	8,084	1,044	773	0	8,014	1,068
Bike Path Access - Percent*	94.6%	80.9%	93.1%	7.0%	100.0%	18.8%	73.5%	0.0%	100.0%	34.6%
Pavement Condition	6.8	6.6	6.7	4.0	8.9	0.8	6.6	3.9	8.1	0.9

* Observed year-to-year differences may result from changes in data sourcing or calculation methods

Appendix B. 2014 Data Definitions

Tabulation geography: The Neighborhood Indicators project provides data for neighborhood associations and planning districts within the City of Madison. Because many of the indicators rely on City of Madison data providers, the geographies represented here include only those areas that lie within Madison city limits. Portions of the planning district and neighborhood boundaries that lie outside the City of Madison are not included in the maps nor are they part of the statistical tabulations presented in this report.
Source: Neighborhood association and planning district boundaries: City of Madison Planning & Development Unit, received 8/19/2014.

Geographic Boundary Change 2014: "Yes" signifies a 2% or greater change in the coverage area of the tabulation area boundary from the previous year. Such changes may account for some of the observed differences in indicator values over time.
Source: APL calculation based on tabulation geography boundary files.

Land area (acres): The land area in acres.
Source: APL calculation based on tabulation geography boundary files.

Number of housing units (Census 2000 & 2010): Estimated total housing units. The Census Bureau defines a housing unit as a house, an apartment, a mobile home or trailer, a group of rooms, or a single room occupied as separate living quarters, or if vacant, intended for occupancy as separate living quarters.
Source: Census 2000 & 2010 block data, APL interpolation to 2014 tabulation geography.

Owner Occupied Homes (Census 2000 & 2010): Estimated number of owner occupied housing units and owner occupied units as a percentage of all occupied units.
Source: Census 2000 & 2010 block data, APL interpolation to 2014 tabulation geography.

Total population (Census 2000 & 2010): Estimated total population.
Source: Census 2000 & 2010 block data, APL interpolation to 2014 tabulation geography.

Young Children - Age 0 to 4 (Census 2000 & 2010): Estimated number and percent of persons age four and under.
Source: Census 2000 & 2010 block data, APL interpolation to 2014 tabulation geography.

Youth Population - Age 0 to 17 (Census 2000 & 2010): Estimated number and percent of persons age 17 and under.
Source: Census 2000 & 2010 block data, APL interpolation to 2014 tabulation geography.

Senior Population - Age 65 and over (Census 2000 & 2010): Estimated number and percent of persons age 65 and over.
Source: Census 2000 & 2010 block data, APL interpolation to 2014 tabulation geography.

White (Census 2000 & 2010): Estimated number and percent of persons in the *White alone* race category. *White alone* population shown for non-Hispanics only; Hispanic population of all races shown separately.
Source: Census 2000 & 2010 block data, APL interpolation to 2014 tabulation geography.

Black or African American (Census 2000 & 2010): Estimated number and percent of persons in the *Black or African American alone* race category. *Black or African American alone* category population shown for non-Hispanics only; Hispanic population of all races shown separately.
Source: Census 2000 & 2010 block data, APL interpolation to 2014 tabulation geography.

Asian (Census 2000 & 2010): Estimated number and percent of persons in the *Asian alone* race category. *Asian alone* population shown for non-Hispanics only; Hispanic population of all races shown separately.
Source: Census 2000 & 2010 block data, APL interpolation to 2014 tabulation geography.

Other Races or Multiracial (Census 2000 & 2010): Estimated number and percent of persons in the American Indian alone, Pacific Islander alone, Other Race alone or Two or More Races categories. Other Race or Multiracial population shown for non-Hispanics only; Hispanic population of all races shown separately.
Source: Census 2000 & 2010 block data, APL interpolation to 2014 tabulation geography.

Hispanic or Latino (Census 2000 & 2010): Estimated number and percent of the persons *of any race* who identify as Hispanic or Latino.
Source: Census 2000 & 2010 block data, APL interpolation to 2014 tabulation geography.

Total households (Census 2000 & 2010): Estimated number of households. The Census Bureau defines a household as an occupied housing unit and includes all the people who occupy that housing unit as their usual place of residence.
Source: Census 2000 & 2010 block data, APL interpolation to 2014 tabulation geography.

Family households (Census 2000 & 2010): Estimated number of families and families as a percentage of all households. The Census Bureau defines a family as two or more people who reside together and who are related by birth, marriage, or adoption.
Source: Census 2000 & 2010 block data, APL interpolation to 2014 tabulation geography.

Families with children (Census 2000 & 2010): Estimated number of families with children and families with children as a percentage of all households.
Source: Census 2000 & 2010 block data, APL interpolation to 2014 tabulation geography.

Female headed families with children (Census 2000 & 2010): Estimated number of female headed households with children (no husband present) and female headed households with children as a percent of all households.
Source: Census 2000 & 2010 block data, APL interpolation to 2014 tabulation geography.

Madison Dwelling Units: Dwelling units contained in City of Madison property databases.
Source: City of Madison Dwelling Units: City of Madison Planning & Development Unit, Situs database, received 08/19/2014.

Campus Dwelling Units: Estimated campus dwelling units in UW and Edgewood College residential housing facilities.
Source: UW & Edgewood Campus Dwelling Units, received 11/05/2014.

Community Pride Violations: Total community pride violations in 2013. Note: Community pride violations for this year are not comparable with violations from 2009 and earlier. Community pride violation types include a subset of Property Maintenance Violations (Exterior Housing, Graffiti, Junk/Trash/Debris, Trash Carts, and Weeds/Overgrowth) and Zoning Violations (Fences, Inoperable Vehicles, and Parking on Lawn). Violation data have various origins: complaint, survey, referred, programmed, field observation, and other. Snow and ice related violations are excluded due to weather dependent year-to-year variation.
Source: City of Madison Building Inspection Unit, received 08/07/2014.

Property Foreclosures: Total foreclosure cases in 2013. The data only represent the initial foreclosure filing (i.e. initial legal action) against a property owner and should not be confused with sheriff sales (only a share of these cases go all the way through the legal process to a sheriff sale). Some foreclosure actions against a property owner may actually reflect numerous properties (i.e. in the case of a landlord who owns several rental properties). These duplicate properties will not be found in the dataset. There were 30 Dane County foreclosure cases that could not be reconciled with a physical property location. Overall geocoding match rate for Dane County foreclosures: 96%.
Source: Dr. Russ Kashian, Fiscal and Economic Research Center - University of Wisconsin-Whitewater and Matt Kures UW-Extension Center for Community Economic Development, received 05/21/2015.

Assisted Housing Units: Housing units to which any of the following assistance categories apply: Public Housing CDA (Community Development Authority), Private Projects - Section 8 Project Subsidies, Section 8 Tenant Based Vouchers, or Section 42 Tax Credits.
Source: City of Madison Planning & Development Unit, received 01/11/2013. These data have not been updated in the last two years.

Average house value: Average assessed value (land & improvements) among single dwelling unit, owner-occupied housing units.
Source: City of Madison Planning & Development Unit, Situs database, received 08/19/2014.

Square foot value of housing: Total housing value (land & improvements) among single dwelling, owner-occupied units divided by the total finished floor area.
Source: City of Madison Dwelling Units: City of Madison Planning & Development Unit, Situs database, received 09/19/2014; Floor area: bldflr database, received, 08/19/2014.

Median year built: Median year built for dwelling units including both single family dwelling units and multi-family units.
Source: City of Madison Planning & Development Unit, Situs database, received 08/19/2014.

Kindergarten preparedness: Percent of MMSD kindergarteners who met the fall Phonological Awareness Literacy Screening (PALS) performance benchmark, summarized over a 3-year period including the 2012-13, 2013-14, and 2014-15 school years. Current year data source and tabulation method differ from previous year.
Source: Madison Metropolitan School District, received 12/19/2014; APL interpolation to 2014 tabulation geography.

Parent education level: no high school diploma / G.E.D.: Number and percent of MMSD students in households in which highest level of parent educational attainment was less than a High School Diploma or G.E.D; limited to students for whom data were available. Data available for 92% of MMSD students in the City of Madison.
Source: Madison Metropolitan School District, received 12/19/2014; APL interpolation to 2014 tabulation geography.

Parent education level: college graduate: Number and percent of MMSD student households in which highest level of parent educational attainment was a bachelor's, graduate or professional degree; limited to students for whom data were available. Data available for 92% of MMSD students in the City of Madison.
Source: Madison Metropolitan School District, received 12/19/2014; APL interpolation to 2014 tabulation geography.

High mobility students: Percent of MMSD students with 2 or more between school transfers in the past 3 years (for the 2011-12, 2012-13, and 2013-14 school years combined). Current year data source and tabulation method differ from previous year.
Source: Madison Metropolitan School District, received 01/15/2015; APL interpolation to 2014 tabulation geography.

Economically disadvantaged students: Percent of MMSD students that were economically disadvantaged. Data available for 100% of MMSD students in the City of Madison.
Source: Madison Metropolitan School District, received 12/19/2014; APL interpolation to 2014 tabulation geography.

Infant health: term or near term: Percent of all 2010-2012 births occurring after the complete 32nd week of gestation. Data for tabulation geographies other than Madison citywide are limited to incidents successfully geocoded. Overall match rate for Dane County birth data: 97%.
Source: Public Health Madison & Dane County; Wisconsin Department of Health Services, received 12/15/2014.

Maternal health: appropriate care: Percent of all 2010-2012 births receiving prenatal care that began by the end of the 4th month of gestation and received 80% or more of the American College of Obstetricians and Gynecologists recommended visits. Data for tabulation geographies other than Madison citywide are limited to incidents successfully geocoded. Overall match rate for Dane County birth data: 97%.
Source: Public Health Madison & Dane County; Wisconsin Department of Health Services, received 12/15/2014.

Voter turn-out: This item is not available for this indicator year. It is only included for years following a presidential election

Median Household Income (2009-2013): Estimated median household income (in 2013 inflation adjusted dollars).
Source: 2013 American Community Survey, 5-Year Block Group and Madison Estimates (Data for small tabulation area may be unreliable and are withheld in some instances; year-to-year comparisons with 5-year estimates are not recommended), APL interpolation to 2014 tabulation geography.

Families in Poverty (2009-2013): Estimated number and percent of families in poverty.
Source: 2013 American Community Survey, 5-Year Block Group and Madison Estimates (Data for small tabulation area may be unreliable and are withheld in some instances; year-to-year comparisons with 5-year estimates are not recommended), APL interpolation to 2014 tabulation geography.

Basic goods & services: Basic goods and services found within ¼ mile of tabulation geography. The presence of businesses is denoted with the corresponding letter: Hospital (H), Pharmacy (P), Credit Union or Bank (B), Grocery Store (G), and Childcare Provider (C).
Source: InfoUSA data from Madison Area Transportation Planning Board, 10/27/2014; APL proximity calculation.

Crimes against persons: Total crimes against persons in 2013 (such as robbery, battery, sexual assault). Data for tabulation geographies other than Madison citywide are limited to incidents successfully geocoded. Overall geocoding match rate for crimes against persons: 93%.
Source: 2013 Incidents Records from Madison Police Department, received 08/08/2014; geocoded by MPD & APL.

Crimes against property: Total crimes against property in 2013 (such as residential burglary, retail burglary, auto theft). Data for tabulation geographies other than Madison citywide are limited to incidents successfully geocoded. Overall geocoding match rate for crimes against property: 98%.
Source: 2013 Incidents Records from Madison Police Department, received 08/08/2014; geocoded by MPD & APL.

Crimes against society: Total crimes against society in 2013 (such as disturbances, liquor violations, and drug incidents). Data for tabulation geographies other than Madison citywide are limited to incidents successfully geocoded. Overall geocoding match rate for crimes against society: 90%.
Source: 2013 Incidents Records from Madison Police Department, received 08/08/2014; geocoded by MPD & APL.

Crashes: Total automobile crashes in 2013. Data for tabulation geographies other than Madison citywide are limited to incidents successfully geocoded. Overall geocoding match rate for crashes is low: 43%.
Source: 2013 Incidents Records from Madison Police Department, received 08/08/2014; geocoded by MPD & APL.

Calls for EMS/Fire service: Total calls for emergency medical service and fire service in 2013 that are inside of or within 250 feet of tabulation area boundary (Inclusion of 250 foot buffer is new in 2014). Data for tabulation geographies other than Madison citywide are limited to incidents successfully geocoded. Madison citywide total reflects estimated number of responses inside City of Madison boundaries. Overall match rate for EMS/Fire calls: 95%.
Source: Madison Fire Department, received 12/12/2014; geocoded by APL.

Transit stop access: Percent of land area that lies within 1/4 mile of a regularly scheduled transit stop. Does not include transit stops served less than twelve months per year.
Source: City of Madison - Metro Transit, 11/07/2014; APL land area calculation based on tabulation geography boundary file.

Available transit service: Total number of regularly scheduled transit trips that would permit a passenger boarding, using any of the transit stop locations that are within or adjacent to the area, summarized over the course of a typical seven-day week (Monday-Sunday).
Source: City of Madison - Metro Transit, 11/07/2014.

Households with Access to a Vehicle (2009-2013): Number and percent of households with access to a private vehicle at home.
Source: 2013 American Community Survey, 5-Year Block Group and Madison Estimates (Data for small tabulation area may be unreliable and are withheld in some instances; year-to-year comparisons with 5-year estimates are not recommended), APL interpolation to 2014 tabulation geography.

Bike path access: Percent of dwelling units that fall within 1/2 mile of a bike network segment; this includes off-street paths and higher level on-street facilities such as bike boulevards and buffered bike lanes. Current year data source and tabulation method are different from previous year.
Source: City of Madison Dwelling Units: City of Madison Planning & Development Unit, Situs database, received 08/19/2014; UW & Edgewood Campus Dwelling Units, received 11/05/2014; Bike Network: Madison MPO, received 12/02/2014; APL proximity calculation.

Pavement condition: Average condition rating of City of Madison maintained street segments within or immediately adjacent to tabulation area. Scoring is based on UW PASER rating system where 10 is the best condition.
Source: City of Madison Engineering Division, received 01/15/2015; APL summary calculation.

Definitions last updated: May 21, 2015

Appendix C. Citywide Variable Maps for Neighborhood Associations and Planning Districts

In order to limit the file size of this 2014 NHI overview report, Appendix C is made available as a separate file and can be accessed via the link below:

http://madison.apl.wisc.edu/pdfprofiles.php

Appendix D. Individual Neighborhood and Planning District Reports

In order to limit the file size of this 2014 NHI overview report, Appendix D is made available as a separate file and can be accessed via the link below:

http://madison.apl.wisc.edu/pdfprofiles.php