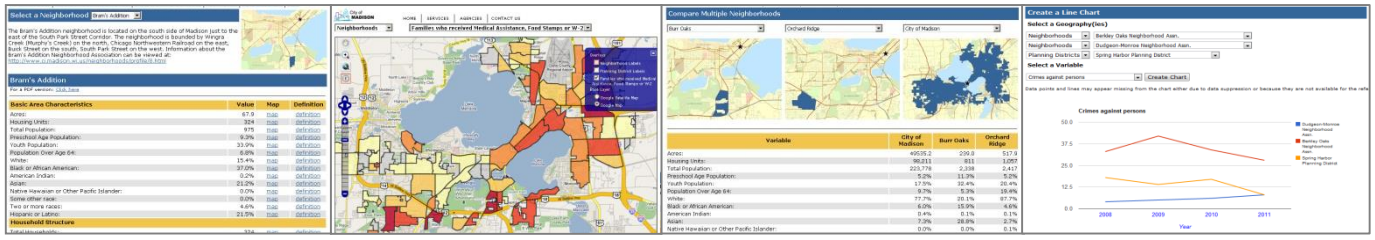
2013 Madison Neighborhood Indicators Report



February, 27 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 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 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 and helping to guide their development when they are lacking.

The project is also an attempt to "democratize," or make readily available, data that have already been collected 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 data are no substitute for the lived experience of residents within these neighborhoods but, nonetheless, provide a means of measuring discrete neighborhood attributes that data users often regard as important when making comparisons.

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 census block groups. The project proceeded with a full scale implementation beginning in 2008. 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 exploratory and 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 consistent with the expressed needs of data users, while being available at the requisite temporal and spatial scale. Still, 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 *2013 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/

2013 Executive Summary

The summary below offers a brief sketch of some recent changes at the city level but only begins to touch on the observed temporal and spatial variation across six years of data for the city's 157 tabulation areas. Because the project aim is to provide information about these smaller Neighborhood Association (NA) and Planning District (PD) geographies, the web-based tools are the best means to explore the variation across the city and over time.

Developments:

- This year's tabulation geographies include two Neighborhood Associations (NAs) that are included this year for the first time: *Twin Oaks* and *Oakwood Village.*
- To promote better understanding of the data by users, the definitions and source info for each indicator selected now appear prominently in the charting and mapping links of the site.
- The data source for City of Madison dwelling units underwent an extensive cleaning, validation and update process resulting in more accurate dwelling unit counts. In a few instances corrections to the dwelling data impact other measures such as bike path and transit access that incorporate dwelling locations into their formulas.
- In response to growing concern for child well-being, the NI team is looking at measures of affordable, quality childcare for possible inclusion in the future.

Basic Area and Population Data:

- Please refer to the descriptive statistics in Appendix A and the maps in Appendix C to examine the wide variation across Madison in residents' age, ethnicity, and household characteristics.

Community Action and Involvement:

- There were 146,558 Madison voters in the 2012 presidential election. This was a 6% increase in the number of voters since the 2008 presidential election when there were 138,791 voters.
- This represented 88% of those registered to vote in Madison. The lowest rates appear on the isthmus and near UW campus, but high resident mobility in those areas makes these difference challenging to interpret.
- The *youth opportunity index* tallied previously was dropped from the roster this year because it did not meaningfully represent the intended subject of interest.

Housing Quality and Availability:

- Total number of *Community Pride Violations* decreased slightly across the City from 3,976 in 2011 to 3,847 in 2012. Among PDs the highest violation counts were primarily on the isthmus, though the Greentree District on the southwest side had the second highest count.
- Total *foreclosures* in Madison decreased from 508 in 2011 to 474 in 2012. Foreclosure counts were highest in Madison's peripheral PDs, particularly those in the north, northeast and southwest edges of the city.
- The 2012 *Assisted Housing* source data are updated only every other year. This year's data show an increase of about two hundred units from the 2010 tally. 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 assisted units.

- Average assessed value of single family owner occupied housing units dropped about $1,000 for the city as a whole. This shift resulted in the number of PDs with a mean value of over $400,000 decreasing from 4 to 3, and the number of districts with mean values under $200,000 increasing from 21 to 22.

Public Safety:

- Citywide *Crimes Against Persons* and *Crimes Against Property* both declined slightly in 2012. *Crimes Against Society* increased slightly. 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 continued to decline in 2012. 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 (43%).
- *Calls for EMS/Fire Service* continued a growth trajectory, though the 25,927 calls in 2012 represent an increase of less than 2% over the previous year.

Health and Family Well Being:

- Citywide *Kindergarten Preparedness* declined slightly to just over 61%.
- The share of Madison Metropolitan School District (MMSD) students in households with parents who have less than a high school diploma remained steady at just over 7%. The share of students who have a parent with a college degree also remained steady at around 51%. These data items should be interpreted with care as they are not available for all students.
- The number of *High Mobility* students decreased by about 14%, leaving 1,287 high mobility students citywide.
- The number of PDs with over 75% of MMSD students being *Economically Disadvantaged* decreased slightly from 11 to 10. Citywide the percentage disadvantaged increased by about half a percentage point.
- Rates for *Appropriate Care* and *Full or Near Term Births* for the 2009-11 were not yet available at the time this report was produced.

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 5-year averages. 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 indicators.
- *Median Household Income* citywide was just over $54,000 according to 5-year ACS estimates from 2012. Estimated median incomes for PDs ranged from just over $14,000 in student residential areas near campus to over $100,000 in several west side areas.

- According to 5-year ACS block group data for 2012, there were 4,382 *Families in Poverty* citywide, an estimated increase of 245 families that pushed the estimated family poverty rate to just under 9%. Poverty rates were highest in student districts, but Marlborough and Truax PDs had estimated rates of over 30% (See Appendix C).
- Planning districts' estimated *Unemployment* rate estimates ranged from 1% to 14%. The number of PD with unemployment estimates of 10% or more increased from 6 to 8.
- Of the 62 PDs, 15 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; most of these were PDs on the Madison periphery.

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 from 11,646 to 12,200.
- According to 5-year ACS data, 6 PDs had household vehicle access rates below 80%; though several were downtown and on UW Campus, this tally also included the more peripheral Marlborough and Lakeview PDs.
- Recently completed bike trails such as the Cannonball Path and incorporation of new data sources into the bike path network file contributed to a significant increase (from 90% to 95%) in *Bike Path Access* citywide. Access rates were over 75% for 53 PDs. Bike path data users should note that many of the segments included in these data are short, non-contiguous segments, so high rates of *Path Access* do not necessarily indicate good bike commuting conditions.
- *Pavement Condition* ratings ranged from 4.2 to 8.2 among PDs. The citywide average decreased slightly from 6.9 to 6.8.

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* links 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 that are 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 *missing survey data*. 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 error applies to the indicators derived from *American Community Survey estimates*. These data are 5-year averages and although they reproduce many of the same demographic and housing attributes as previously observed in the Decennial Census, they do not provide the same degree of reliability. The geographic interpolation of those estimates from block group 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 six 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 as needed whenever it is 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 2013

Allis Planning District

Madison Planning Districts:
Planning districts are delineated by the City of Madison Planning and Development Office. They are designed to provide data at a useful scale with full coverage of the city. Their boundaries were originally derived from census tract boundaries and they generally include portions of several neighborhoods and alder districts.

Total Area: 457 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 2012 indicator items can be found on pages three through six.

DEMOGRAPHIC PROFILE	Planning District				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	1,100	n/a	1,103	n/a	108,554	n/a
Owner Occupied Units	913	84.6%	882	83.1%	50,394	49.3%
Total Population	2,401	n/a	2,374	n/a	232,659	n/a
Age						
Young Children (Age 0 to 4)	121	5.1%	145	6.1%	13,535	5.8%
Youth Population (Age 0 to 17)	472	19.7%	428	18.0%	40,651	17.5%
Senior Population (Age 65 and Over)	415	17.3%	306	12.9%	22,335	9.6%
Race and Ethnicity						
White	2,246	93.5%	2,104	88.6%	175,991	75.6%
Black or African American	51	2.1%	58	2.5%	16,519	7.1%
Asian	23	0.9%	12	0.5%	17,047	7.3%
Other Races or Multiracial	48	2.0%	73	3.1%	7,158	3.1%
Hispanic or Latino	33	1.4%	126	5.3%	15,944	6.9%
Household Structure						
Total Households	1,078	n/a	1,061	n/a	102,250	n/a
Family Households	654	60.7%	602	56.7%	47,714	46.7%
Families with Children	252	23.3%	230	21.7%	21,320	20.9%
Female Headed Families with Children	48	4.4%	45	4.3%	5,403	5.3%

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

PDF Profile Sample (Continued)

INDICATORS	Planning District				City of Madison	
	2012		2013		2013	
	Number	Percent or Rate	Number	Percent or Rate	Number	Percent or Rate
HOUSING CHARACTERISTICS						
Madison Dwelling Units	1,121	n/a	1,119	n/a	108,101	n/a
Campus Dwelling Units	0	n/a	0	n/a	5,189	n/a
Community Pride Violations	73	n/a	92	n/a	3,847	n/a
Property Foreclosures	12	n/a	9	n/a	474	n/a
Assisted Housing Units	4	n/a	4	n/a	6,416	n/a
Average House Value	$161,903	n/a	$160,804	n/a	$232,926	n/a
Square Foot Value of Housing	$115	n/a	$114	n/a	$124	n/a
Median Year Built	1951	n/a	1951	n/a	1972	n/a
HEALTH & FAMILY WELL-BEING						
Kindergarten Preparedness*	90	63.2%	91	62.1%	7,894	61.3%
Parent Education Level: No High School Diploma/G.E.D.*	9	5.0%	7	4.0%	1,326	7.2%
Parent Education Level: College Graduate*	70	39.4%	82	45.6%	9,496	51.4%
High Mobility Students*	14	6.2%	12	5.5%	1,287	5.9%
Economically Disadvantaged Students*	96	44.1%	93	43.7%	10,514	48.2%
Infant Health: Term or Near Term Births	Spr*	Spr*	n/a	n/a	n/a	n/a
Maternal Health: Appropriate Care	91	91.9%	n/a	n/a	n/a	n/a
COMMUNITY ACTION & INVOLVEMENT						
Registered Voter Turn-Out 2012 Presidential Election	n/a	n/a	1,766	92.5%	169,682	86.4%
ECONOMIC VITALITY						
Median Household Income	$62,252	n/a	$56,688	n/a	$53,958	n/a
Families in Poverty	45	6.6%	41	6.4%	4,382	8.9%
Unemployment	n/a	n/a	148	10.2%	8,939	6.2%
Basic Goods & Svcs (Hospital, Pharmacy, Bank/CU, Grocery, Childcare)	P,B,G,C	n/a	P,B,G,C	n/a	H,P,B,G,C	n/a
PUBLIC SAFETY INDICATORS						
Crimes Against Persons	11	n/a	10	n/a	2,058	n/a
Crimes Against Property	69	n/a	100	n/a	9,582	n/a
Crimes Against Society	57	n/a	62	n/a	10,467	n/a
Crashes	42	n/a	42	n/a	11,202	n/a
Calls for EMS/Fire Service	238	n/a	239	n/a	25,927	n/a
TRANSPORTATION						
Transit Stop Access	n/a	86.3%	n/a	86.5%	n/a	63.1%
Available Transit Service	571	0.51	701	0.63	12,200	0.11
Households with Access to a Vehicle	1,004	98.2%	1,001	98.4%	88,864	87.6%
Bike Path Access	977	87.2%	974	87.0%	107,153	94.6%
Pavement Condition	4.6	n/a	4.6	n/a	6.8	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

***:** 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 are not for the entire student population.

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

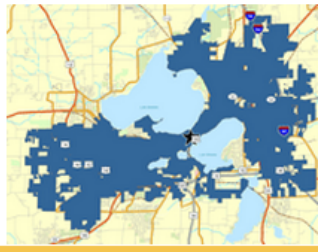
Home | Profiles | Map | Chart | Compare | Find District | PDF Reports | Definitions | Contact | Help | About

Madison Neighborhood Associations

City of Madison

Madison Planning Districts

Select a Planning District



Mdsn2013

Geography	2013	Map	Chart	Definition
Acres	50,091	map	chart	definition
Boundary Change	No	n/a	n/a	definition

Demographic Profile	2000	2010	Map	Chart	Definition
Housing units	93,051	108,554	map	chart	definition
Owner occupied units	47.5%	49.3%	map	chart	definition
Total population	208,858	232,659	map	chart	definition
Age 4 and under	5.2%	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	102,250	map	chart	definition
Family households	42,709	47,714	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	2013	Map	Chart	Definition
Community Action and Involvement				
Registered voter turnout	86.4%	map	chart	definition
Housing Quality and Availability				
Madison dwelling units	108,101	map	chart	definition
Campus dwelling units	5,189	map	chart	definition
Community pride violations	3,847	map	chart	definition
Property foreclosures	474	map	chart	definition
Assisted housing units	6,416	map	chart	definition
Average house value	$232,926	map	chart	definition
Square foot value of housing	$124	map	chart	definition
Median year built	1972	map	chart	definition

(image truncated)

Web Comparison

City of MADISON

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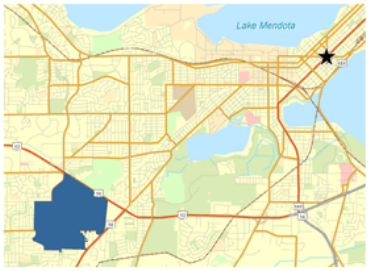
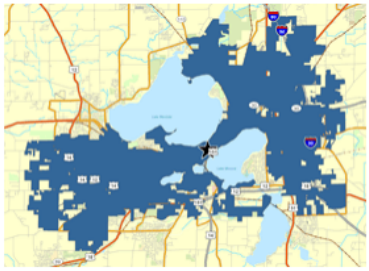
Compare Multiple Geographies and Years

2013 ▼ Bay Creek Neighborhood Assn. ▼ | 2013 ▼ Orchard Ridge Planning District ▼ | 2013 ▼ City of Madison ▼





Geography	Bay Creek Neighborhood Assn.	Orchard Ridge Planning District	Mdsn2013
Acres	368	744	50,091
Boundary Change	No	No	No
Census 2010 Demographic Profile	**Bay Creek Neighborhood Assn.**	**Orchard Ridge Planning District**	**Mdsn2013**
Housing units	1,316	1,893	108,554
Owner occupied units	44.9%	68.7%	49.3%
Total population	2,401	4,184	232,659
Age 4 and under	4.8%	6.7%	5.8%
Age 17 and under	14.8%	22.0%	17.5%
Age 65 and over	11.1%	17.1%	9.6%
White	83.6%	75.3%	75.6%
African American	5.0%	10.5%	7.1%
Asian	2.7%	3.6%	7.3%
Other races or multiracial	4.2%	3.2%	3.1%
Hispanic/Latino (of any race)	4.6%	7.3%	6.9%
Total households	1,266	1,791	102,250
Family households	494	1,155	47,714
Families with children	15.7%	25.2%	20.9%
Female headed households with children	3.2%	6.8%	5.3%
Indicators	**Bay Creek Neighborhood Assn.**	**Orchard Ridge Planning District**	**Mdsn2013**
Community Action and Involvement			
Registered voter turnout	87.8%	89.2%	86.4%
Housing Quality and Availability			
Madison dwelling units	1,326	1,901	108,101
Campus dwelling units	0	0	5,189

(image truncated)

Web Charting

City of MADISON

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Create a Line Chart

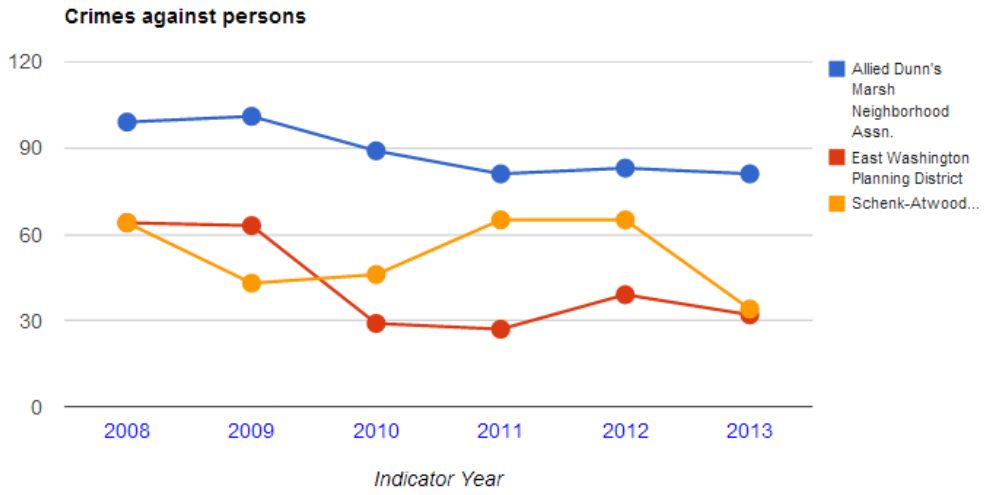
Select a Geography(ies)

Neighborhoods ▾ Allied Dunn's Marsh Neighborhood Assn. ▾
Planning Districts ▾ East Washington Planning District ▾
Neighborhoods ▾ Schenk-Atwood-Starkweather-Yahara Neighborhood Assn. ▾

Select a Variable

Crimes against persons ▾

Data points and lines may appear missing from the chart either due to data suppression or because they are not available for the reference year.

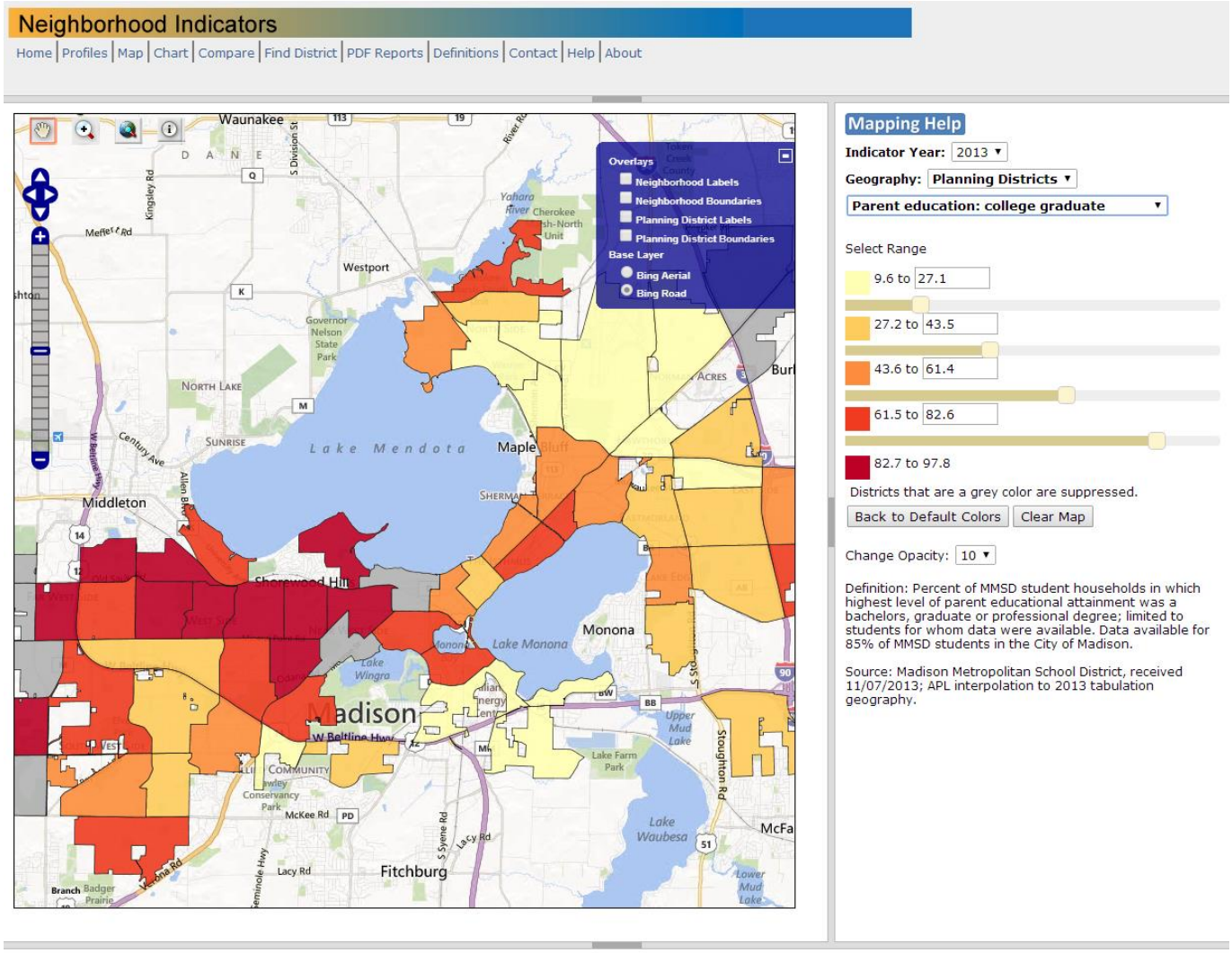


Definition: Total crimes against persons in 2012 (such as robbery, battery, sexual assault). Data for tabulation geographies other than Madison citywide are limited to incidents successfully geocoded. Overall geocoding match rate for crimes against persons: 93%.

Source: 2012 Incidents Records from Madison Police Department, received 10/23/2013; geocoded by MPD & APL.

Site Created by: The Applied Population Lab
Madison Neighborhood Indicators Project, Last updated December 2013

Web Mapping


Neighborhood Indicators
Home | Profiles | Map | Chart | Compare | Find District | PDF Reports | Definitions | Contact | Help | About
Overlays
Neighborhood Labels
Neighborhood Boundaries
Planning District Labels
Planning District Boundaries
Base Layer
Bing Aerial
Bing Road
Mapping Help
Indicator Year: 2013
Geography: Planning Districts
Parent education: college graduate
Select Range
9.6 to 27.1
27.2 to 43.5
43.6 to 61.4
61.5 to 82.6
82.7 to 97.8
Districts that are a grey color are suppressed.
Back to Default Colors
Clear Map
Change Opacity: 10
Definition: Percent of MMSD student households in which highest level of parent educational attainment was a bachelors, graduate or professional degree; limited to students for whom data were available. Data available for 85% of MMSD students in the City of Madison.
Source: Madison Metropolitan School District, received 11/07/2013; APL interpolation to 2013 tabulation geography.
Waunakee
Westport
Middleton
Lake Mendota
Maple Bluff
Monona
Lake Monona
Madison
Fitchburg
Lake Waubesa
Site Created by: The Applied Population Lab
Madison Neighborhood Indicators Project, Last updated December 2013

Appendix A.

Descriptive Statistics: Planning Districts

	Madison (2013 Bndry)		Planning Districts (2012 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	108,554	1,492	20	5,674	1,056	1,744	100	6,654	1,149
Owner Occupied Units - Number	42,562	50,394	682	9	2,000	495	810	0	2,300	500
Owner Occupied Units - Percent	47.5%	49.3%	54.3%	0.8%	98.2%	25.9%	55.0%	0.0%	97.5%	24.1%
Total Population	208,858	232,659	3,350	42	15,689	2,528	3,740	208	16,320	2,549
Age										
Preschool Age Population (Age 0 to 4) - Number	10,873	13,535	174	0	463	123	218	2	764	154
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	653	15	1,920	421
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	22,335	309	6	1,379	254	359	7	969	228
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	170,987	175,991	2,741	42	13,339	2,167	2,829	166	13,198	2,090
White - Percent	81.9%	75.6%	83.5%	27.8%	100.0%	13.8%	75.6%	24.1%	94.6%	14.4%
Black or African American - Number	12,123	16,519	195	0	1,235	227	265	7	1,216	254
Black or African American - Percent	5.8%	7.1%	5.6%	0.0%	33.6%	6.5%	7.3%	0.9%	33.7%	6.5%
Asian -Number	12,010	17,047	193	0	1,412	275	275	12	1,564	342
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	115	7	450	77
Other Race or Multiracial - Percent	2.4%	3.1%	2.3%	0.0%	6.0%	1.1%	3.1%	0.8%	6.1%	1.1%
Hispanic or Latino - Number	8,656	15,944	139	0	836	147	256	6	973	220
Hispanic or Latino - Percent	4.1%	6.9%	3.7%	0.0%	19.8%	3.0%	7.0%	1.4%	28.5%	5.8%
Household Structure										
Total Housholds	89,574	102,250	1,436	20	5,481	1,028	1,643	82	6,288	1,084
Family Households - Number	42,709	47,714	684	11	1,821	438	767	32	1,815	433
Family Households - Percent	47.7%	46.7%	54.4%	4.2%	83.3%	17.3%	51.4%	2.2%	77.3%	16.2%
Families with Children - Number	19,772	21,320	317	3	898	221	343	2	1,066	219
Families with Children - Percent	22.1%	20.9%	24.6%	0.3%	52.5%	10.1%	23.1%	0.1%	46.9%	9.8%
Female headed families with children - Number	4,491	5,403	72	0	191	60	87	2	277	66
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							
	2012	2013	2012				2013			
			Mean	Min.	Max.	Std. Dev.	Mean	Min.	Max.	Std. Dev.
Acres	49,914	50,091	656	247	2,351	338	662	247	2,350	340
Housing Characteristics										
Madison Dwelling Units*	108,888	108,101	1,723	51	7,644	1,259	1,740	51	6,518	1,177
Campus Dwelling Units	5,192	5,189	82	0	1,943	355	84	0	1,981	359
Community Pride Violations	3,976	3,847	63	0	521	87	62	0	467	80
Property Foreclosures	508	474	8	0	27	7	8	0	29	6
Assisted Housing Units	6,459	6,416	102	0	604	134	103	0	600	134
Average house value	$ 234,150	$ 232,926	$ 245,803	$ 128,086	$ 519,057	$ 83,604	$ 243,289	$ 128,461	$ 522,647	$ 84,343
Square foot value of housing	$ 125	$ 124	$ 126	$ 92	$ 189	$ 25	$ 125	$ 92	$ 191	$ 26
Median year built	1972	1972	1972	1917	2008	24	1972	1917	2011	24
Health & Family Well-Being										
Kindergarten Preparedness - Number	7,689	7,894	122	0	443	100	127	0	480	102
Kindergarten Preparedness - Percent	61.7%	61.3%	62.2%	3.1%	100.0%	20.6%	63.8%	21.5%	100.0%	19.7%
Parent Education Level: No H.S. Diploma/G.E.D. - Num.	1,372	1,326	22	0	162	30	21	0	153	30
Parent Education Level: No H.S. Diploma/G.E.D. - Pct.	7.5%	7.2%	6.2%	0.0%	27.9%	6.8%	5.9%	0.0%	27.0%	6.7%
Parent Education Level: College Graduate - Number	9,308	9,496	147	0	568	126	153	0	603	128
Parent Education Level: College Graduate - Percent	50.9%	51.4%	55.8%	0.0%	100.0%	29.1%	56.3%	0.0%	100.0%	28.0%
High mobility students - Number	1,492	1,287	23	0	97	24	21	0	78	20
High mobility students - Percent	6.8%	5.9%	6.3%	0.0%	33.4%	5.1%	6.0%	0.0%	22.0%	4.8%
Economically Disadvantaged Students - Number	10,416	10,514	164	0	726	171	169	0	696	171
Economically Disadvantaged Students - Percent	47.6%	48.2%	44.7%	0.1%	100.0%	28.0%	43.0%	0.0%	100.0%	28.0%
Infant Health: Term or Near Term Births - Percent	98.2%	n/a	98.5%	93.9%	100.0%	1.6%	n/a	n/a	n/a	n/a
Maternal Health: Appropriate Care - Percent	91.3%	n/a	91.9%	78.1%	100.0%	4.7%	n/a	n/a	n/a	n/a
Community Action & Involvement										
Voter Turnout (2012 Presidential Election)	n/a	146,558	n/a	n/a	n/a	n/a	2,359	136	11,313	1,753
Voter Turnout as a percentage of registered voters	n/a	86.4%	n/a	n/a	n/a	n/a	87.7%	76.6%	92.5%	3.7%
Economic Vitality										
Median household income	$54,093	$53,958	$61,773	$14,219	$108,802	$20,702	$61,760	$14,224	$110,517	$21,184
Families in poverty (among families) - Number	4,137	4,382	65	0	296	71	68	0	328	75
Families in poverty (among families) - Percent	8.6%	8.9%	10.0%	0.0%	76.1%	13.9%	10.1%	0.0%	72.6%	13.6%
Unemployment - Number	8,405	8,939	133	4	671	108	140	4	811	124
Unemployment - Percent	6.0	6.2	6.2	1.4	16.1	3.2	6.1	1.4	14.3	3.1
Public Safety										
Crimes against persons	2,186	2,058	31	0	233	38	30	0	204	35
Crimes against property	9,822	9,582	134	0	813	146	135	0	773	148
Crimes against society	10,427	10,467	141	0	1,309	207	146	1	1,482	224
Crashes	11,706	11,202	79	1	283	74	71	2	267	64
Calls for EMS / fire service	25,472	25,927	381	8	1,846	342	392	5	1,858	336
Transportation										
Transit Stop Access - Percent	60.4%	63.1%	73.5%	0.0%	100.0%	31.2%	84.5%	0.0%	100.0%	24.0%
Available Transit Service - Trips	11,646	12,200	1,365	0	6,579	1,516	1,457	0	7,019	1,627
Available Transit Service - Rate	0.1	0.1	0.8	0.0	3.9	0.8	0.8	0.0	5.3	0.9
Households with access to a vehicle - Number	87,789	88,864	1,390	65	3,330	788	1,427	76	3,578	790
Households with access to a vehicle - Percent	88.2%	87.6%	91.1%	50.9%	100.0%	9.2%	90.5%	50.0%	100.0%	9.9%
Bike Path Access - Number*	102,454	107,153	1,622	0	8,770	1,404	1,725	0	8,113	1,340
Bike Path Access - Percent*	89.8%	94.6%	83.3%	0.0%	100.0%	28.1%	89.3%	0.0%	100.0%	22.9%
Pavement Condition	6.9	6.8	6.9	4.2	8.1	0.7	6.8	4.2	8.2	0.7

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

Descriptive Statistics: Neighborhood Associations

	Madison (2013 Bndry)		Neighborhood Associations (2013 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	108,554	825	0	6,388	856	923	56	8,002	981
Owner Occupied Units - Number	42,562	50,394	391	0	1,544	355	438	0	1,539	345
Owner Occupied Units - Percent	47.5%	49.3%	58.5%	0.5%	98.9%	28.1%	59.3%	0.0%	99.6%	26.3%
Total Population	208,858	232,659	1,880	1	12,341	1,876	2,008	119	13,843	1,957
Age										
Preschool Age Population (Age 0 to 4) - Number	10,873	13,535	99	0	419	82	114	0	387	90
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%	3.1%
Youth Population (Age 0 to 17) - Number	37,453	40,651	347	0	1,066	273	356	0	1,075	258
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	22,335	169	0	854	176	184	2	720	164
Population Age 65 and Over - Percent	9.2%	9.6%	10.9%	0.2%	98.7%	11.3%	11.4%	0.2%	97.9%	11.2%
Race and Ethnicity										
White - Number	170,987	175,991	1,538	1	10,293	1,614	1,525	100	11,346	1,629
White - Percent	81.9%	75.6%	81.9%	24.9%	100.0%	16.6%	73.9%	20.1%	98.3%	17.7%
Black or African American - Number	12,123	16,519	113	0	883	169	147	0	800	181
Black or African American - Percent	5.8%	7.1%	6.4%	0.0%	39.8%	8.1%	8.6%	0.0%	47.0%	9.5%
Asian -Number	12,010	17,047	107	0	1,398	194	133	1	1,399	214
Asian - Percent	5.8%	7.3%	5.3%	0.0%	52.1%	6.9%	6.7%	0.5%	52.9%	7.0%
Other Race or Multiracial - Number	5,081	7,158	46	0	277	47	62	0	374	58
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	76	0	601	98	140	0	671	154
Hispanic or Latino - Percent	4.1%	6.9%	4.1%	0.0%	24.7%	4.1%	7.6%	0.3%	34.0%	6.3%
Household Structure										
Total Housholds	89,574	102,250	798	0	6,208	833	873	54	7,298	913
Family Households - Number	42,709	47,714	386	0	1,242	295	412	16	1,189	280
Family Households - Percent	47.7%	46.7%	57.5%	3.3%	94.9%	18.8%	55.6%	1.9%	84.7%	16.8%
Families with Children - Number	19,772	21,320	181	0	569	143	184	0	531	132
Families with Children - Percent	22.1%	20.9%	27.5%	0.0%	62.0%	12.3%	25.7%	0.0%	57.8%	10.8%
Female headed families with children - Number	4,491	5,403	40	0	189	42	47	0	215	45
Female headed families with children - Percent	5.0%	5.3%	5.5%	0.0%	27.6%	4.9%	6.9%	0.0%	43.9%	6.6%

(table continued below)

Descriptive Statistics: Neighborhood Associations (Continued from above)

	Madison		Neighborhood Associations							
	2012	2013	2012				2013			
			Mean	Min.	Max.	Std. Dev.	Mean	Min.	Max.	Std. Dev.
Acres	49,914	50,091	274	20	725	184	273	20	857	192
Housing Characteristics										
Madison Dwelling Units*	108,888	108,101	933	51	8,501	1,038	916	51	8,090	988
Campus Dwelling Units	5,192	5,189	35	0	1,619	216	34	0	1,601	213
Community Pride Violations	3,976	3,847	40	0	673	78	38	0	543	67
Property Foreclosures	508	474	4	0	22	4	4	0	16	4
Assisted Housing Units	6,459	6,416	56	0	749	114	54	0	744	112
Average house value	$ 234,150	$ 232,926	$ 231,239	$ 112,920	$ 535,821	$ 88,326	$ 226,647	$ 113,501	$ 538,616	$ 89,003
Square foot value of housing	$ 125	$ 124	$ 121	$ 90	$ 193	$ 24	$ 119	$ 82	$ 193	$ 26
Median year built	1972	1972	1969	1914	2005	22	1970	1914	2005	22
Health & Family Well-Being										
Kindergarten Preparedness - Number	7,689	7,894	71	0	300	65	72	0	300	66
Kindergarten Preparedness - Percent	61.7%	61.3%	60.6%	0.2%	100.0%	22.8%	61.6%	16.3%	100.0%	21.6%
Parent Education Level: No H.S. Diploma/G.E.D. - Num.	1,372	1,326	13	0	101	20	12	0	104	21
Parent Education Level: No H.S. Diploma/G.E.D. - Pct.	7.5%	7.2%	6.5%	0.0%	45.4%	8.6%	6.0%	0.0%	48.9%	8.2%
Parent Education Level: College Graduate - Number	9,308	9,496	85	0	408	83	86	0	410	86
Parent Education Level: College Graduate - Percent	50.9%	51.4%	53.8%	0.0%	99.9%	29.0%	53.9%	0.0%	100.0%	28.5%
High mobility students - Number	1,492	1,287	13	0	72	16	11	0	69	14
High mobility students - Percent	6.8%	5.9%	6.3%	0.0%	33.4%	5.6%	5.1%	0.0%	25.2%	4.5%
Economically Disadvantaged Students - Number	10,416	10,514	93	0	499	111	93	0	496	114
Economically Disadvantaged Students - Percent	47.6%	48.2%	43.7%	0.0%	100.0%	29.1%	44.9%	0.0%	100.0%	29.7%
Infant Health: Term or Near Term Births - Percent	98.2%	0.0%	98.3%	83.3%	100.0%	2.4%	n/a	n/a	n/a	n/a
Maternal Health: Appropriate Care - Percent	91.3%	0.0%	90.5%	66.7%	100.0%	7.1%	n/a	n/a	n/a	n/a
Community Action & Involvement										
Voter Turnout (2012 Presidential Election)	n/a	146,558	n/a	n/a	n/a	n/a	1,282	22	8,964	1,346
Voter Turnout as a percentage of registered voters	n/a	86.4%	n/a	n/a	n/a	n/a	88.4%	76.8%	95.7%	4.1%
Economic Vitality										
Median household income	$54,093	$53,958	$61,059	$9,469	$127,114	$22,214	$60,829	$9,548	$130,989	$22,936
Families in poverty (among families) - Number	4,137	4,382	34	0	235	43	37	0	257	48
Families in poverty (among families) - Percent	8.6%	8.9%	11.2%	0.0%	78.6%	14.9%	11.5%	0.0%	74.4%	14.8%
Unemployment - Number	8,405	8,939	77	0	562	87	78	1	616	92
Unemployment - Percent	6.0	6.2	6.8	0.0	20.6	4.4	6.9	0.1	25.0	4.7
Public Safety										
Crimes against persons	2,186	2,058	19	0	181	30	17	0	172	27
Crimes against property	9,822	9,582	71	0	796	101	69	0	768	100
Crimes against society	10,427	10,467	85	0	1,170	170	86	0	1,134	174
Crashes	11,706	11,202	41	0	379	57	35	0	369	48
Calls for EMS / fire service	25,472	25,927	199	5	2,565	299	202	2	2,532	293
Transportation										
Transit Stop Access - Percent	60.4%	63.1%	82.3%	0.0%	100.0%	27.5%	84.5%	0.0%	100.0%	24.0%
Available Transit Service - Trips	11,646	12,200	1,002	0	6,484	1,239	1,035	0	6,904	1,303
Available Transit Service - Rate	0.1	0.1	1.2	0.0	5.2	1.1	1.3	0.0	5.6	1.1
Households with access to a vehicle - Number	87,789	88,864	749	89	4,128	620	745	51	4,378	640
Households with access to a vehicle - Percent	88.2%	87.6%	91.2%	38.1%	100.0%	9.9%	90.3%	36.8%	100.0%	10.8%
Bike Path Access - Number*	102,454	107,153	868	0	7,349	1,036	900	8	8,084	1,044
Bike Path Access - Percent*	89.8%	94.6%	87.9%	0.0%	100.0%	24.2%	93.1%	7.0%	100.0%	18.8%
Pavement Condition	6.9	6.8	6.8	4.0	8.6	0.8	6.7	4.0	8.9	0.8

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

Appendix B. 2013 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 boundaries: City of Madison Planning & Development Unit, received 10/01/2013; planning districts: City of Madison Planning & Development Unit, received 09/25/2013.

Geographic Boundary Change 2013: "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 2013 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 2013 tabulation geography.

Total population (Census 2000 & 2010): Estimated total population.
Source: Census 2000 & 2010 block data, APL interpolation to 2013 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 2013 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 2013 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 2013 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 2013 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 2013 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 2013 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 2013 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 2013 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 2013 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 2013 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 2013 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 2013 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 02/06/2014.

Campus Dwelling Units: Estimated campus dwelling units in UW and Edgewood College residential housing facilities.
Source: UW & Edgewood Campus Dwelling Units, received 11/04/2013.

Community Pride Violations: Total community pride violations in 2012. 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 10/22/2013.

Property Foreclosures: Total foreclosure cases in 2012 based on unique properties reported in the Consolidated Court Automation Programs case management system. Only a share of these cases go all the way through the foreclosure 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 are 85 foreclosure cases in Dane County that were not reconciled with a physical property location. Overall geocoding match rate for Dane County foreclosures: 93%.
Source: Dr. Russ Kashian, Fiscal and Economic Research Center - University of Wisconsin-Whitewater and Matt Kures UW-Extension Center for Community Economic Development, received 02/11/2014.

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 are updated only once every 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 02/06/2014.

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 02/06/2014; Floor area: bldflr database, received, 09/25/13.

Median year built: Median year built for dwelling units including both single family dwelling units and multi-family units.
Source: City of Madison Dwelling Units: City of Madison Planning & Development Unit, Situs database, received 02/06/2014.

Kindergarten preparedness: Number and percent of students identified as kindergarten ready through MMSD kindergarten readiness assessment; limited to students for whom data were available. Data available for 59% of MMSD students in the City of Madison.
Source: Madison Metropolitan School District, received 11/07/2013; APL interpolation to 2013 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 85% of MMSD students in the City of Madison.

Source: Madison Metropolitan School District, received 11/07/2013; APL interpolation to 2013 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 85% of MMSD students in the City of Madison.
Source: Madison Metropolitan School District, received 11/07/2013; APL interpolation to 2013 tabulation geography.

High mobility students: Number and percent of MMSD students whose number of attendance area moves was greater than one per year in the district. Data available for 100% of MMSD students in the City of Madison.
Source: Madison Metropolitan School District, received 11/07/2013; APL interpolation to 2013 tabulation geography.

Economically disadvantaged students: Number and percent of MMSD students identified by the district as economically disadvantaged. Data available for 100% of MMSD students in the City of Madison.
Source: Madison Metropolitan School District, received 11/07/2013; APL interpolation to 2013 tabulation geography.

Infant health: term or near term: Number and percent of all 2009-2011 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: Not available at time of printing. See website for possible updates.

Maternal health: appropriate care: Number and percent of all 2009-2011 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: Not available at time of printing. See website for possible updates.

Voter turn-out: Number of voters and voters as a percentage of registered voters in the 2012 presidential election. City of Madison Information Technology, received 10/02/13; geocoded by APL.

Median Household Income (2008-2012): Estimated median household income (in 2012 inflation adjusted dollars).
Source: 2012 American Community Survey, 5-Year Block Group and Madison Estimates (reliability for small tabulation geographies may be low), APL interpolation to 2013 tabulation geography.

Families in Poverty (2008-2012): Estimated number and percent of families in poverty.
Source: 2012 American Community Survey, 5-Year Block Group and Madison Estimates (reliability for small tabulation geographies may be low), APL interpolation to 2013 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, 09/10/2013; APL proximity calculation.

Crimes against persons: Total crimes against persons in 2012 (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: 2012 Incidents Records from Madison Police Department, received 10/23/2013; geocoded by MPD & APL.

Crimes against property: Total crimes against property in 2012 (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: 2012 Incidents Records from Madison Police Department, received 10/23/2013; geocoded by MPD & APL.

Crimes against society: Total crimes against society in 2012 (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: 2012 Incidents Records from Madison Police Department, received 10/23/2013; geocoded by MPD & APL.

Crashes: Total automobile crashes in 2012. Data for tabulation geographies other than Madison citywide are limited to incidents successfully geocoded. Overall geocoding match rate for crashes: 43%.
Source: 2012 Incidents Records from Madison Police Department, received 10/23/2013; geocoded by MPD & APL.

Calls for EMS/Fire service: Total calls for emergency medical service and fire service in 2012. Data for tabulation geographies other than Madison citywide are limited to

incidents successfully geocoded. Madison citywide total reflects data responses inside City of Madison boundaries. Overall match rate for EMS/Fire calls: 98%.
Source: Madison Fire Department, received 09/25/2013; 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, 09/27/2013; 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). Rate shown as total trips available divided by dwelling units.
Source: City of Madison Dwelling Units: City of Madison Planning & Development Unit, Situs database, received 02/06/2014; UW & Edgewood Campus Dwelling Units, received 11/04/2013; APL proximity calculation.

Households with Access to a Vehicle (2008-2012): Number and percent of households with access to a private vehicle at home.
Source: 2012 American Community Survey, 5-Year Block Group and Madison Estimates (reliability for small tabulation geographies may be low), APL interpolation to 2013 tabulation geography.

Bike path access: Percent of dwelling units that lie within 1/2 mile of any bike path segment. Bike path network data include longer, contiguous routes as well as short, isolated segments.
Source: City of Madison Dwelling Units: City of Madison Planning & Development Unit, Situs database, received 02/06/2014; UW & Edgewood Campus Dwelling Units, received 11/04/2013; Bike Paths: Madison Area Transportation Planning Board (updated sourcing methods), received 09/10/2013; 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 01/17/2014; APL summary calculation.

Definitions last updated: February 25, 2014

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

In order to limit the file size of this 2013 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 2013 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