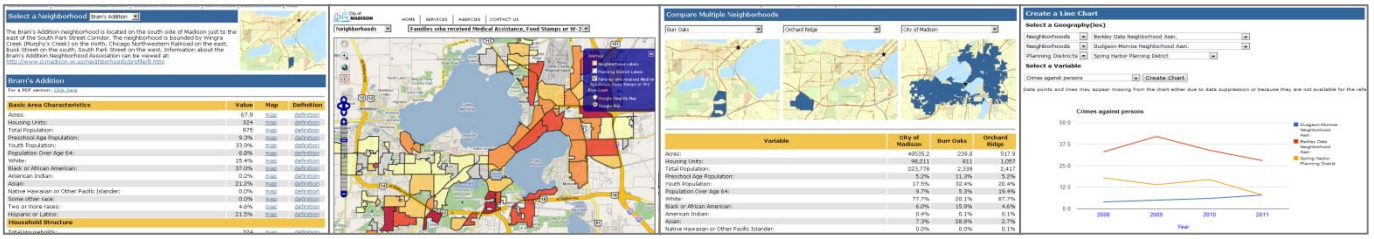
2012 Madison Neighborhood Indicators Report



Jan 23 , 2013
Prepared by:
The University of Wisconsin
Applied Population Laboratory
& the City of Madison

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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 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. 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 *2012 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/

2012 Executive Summary

Developments:

- This year's tabulation geographies include all the Planning Districts (PDs) from the previous year plus several new Neighborhood Associations (NAs) that are included this year for the first time: *Rocky Bluff*, *Woodland Hills*, and *Marbella.*
- Census 2000 and 2010 demographic characteristics are provided again this year, this time using the 2012 neighborhood and planning boundaries.
- *Unemployment* was reintroduced as an indicator this year because of newly available data from the American Community Survey (ACS) 5-year block group estimates. Updated ACS estimates of *Household Poverty*, *Median Income,* and *Vehicle Access* are included as well for those neighborhood geographies larger than 250 acres.
- We are currently working to get access to income qualifying services data such as WIC Households (Women, Infants, and Children: Food and Nutrition Services recipients) or Badger Care Households.
- The interactive mapping component has been updated to allow user defined legend intervals
- *Water Use* had been excluded this year due to lack of consistent data for neighborhood level estimates.

Basic Area and Population Data:

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

Community Action and Involvement:

- The *Youth Opportunity Index* was stable for the City as a whole. While this index effectively captures a few aspects of youth opportunities, the indicators steering group welcomes suggestions for better measures of youth opportunity structure at the neighborhood level.
- *Voter Turnout* is not included as a 2012 indicator but will be presented in the 2013 release.

Housing Quality and Availability:

- Total number of *Community Pride Violations* increased significantly across the City from 3,632 in 2010 to 3,976 in 2011. The highest violation counts among PDs were primarily on the isthmus; the Near West district violations increased significantly over the previous year keeping it in the highest position with nearly double the number of violations of Greentree, the next highest district.
- *Foreclosure* counts were highest in Madison's peripheral PDs, particularly those toward the northeast and southwest edges of the city. The Madison total decreased from 595 in 2010 to 508 in 2011.
- *Assisted Housing* increased by about two hundred units from the previous tally in 2010. The units are unevenly dispersed throughout the city; the ten PDs with the most units accounted for over 55% of the city's total 6,416 units. Nine districts had no assisted units.

- Average assessed value of single family owner occupied units dropped about $7,000 for the City as a while. There are still four PDs with mean values of over $400,000, but the number of districts with mean values under $200,000 increased from 17 to 21.

Public Safety:

- Citywide *Crimes Against Persons* and *Crimes Against Property* both declined in 2011. *Crimes Against Society* continued to increase as in the previous year. 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 again 2011. 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 (47%).
- *Calls for EMS/Fire Service* increased again from the prior year's tally; in 2010 there were just under 24,000 calls and in 2011 there were nearly 25,500.

Health and Family Well Being:

- Citywide *Kindergarten Preparedness* declined slightly to just under 62%.
- The number of students in households with parents who have less than a high school diploma remained steady at about 7.5%. At the same time the number of MMSD students who have a parent with a college degree 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 remained steady at just under 7% citywide.
- The number of PDs with over 75% of MMSD students being *Economically Disadvantaged* increased slightly from 9 to 11. Citywide the percentage *Disadvantaged* increased by less than one percentage point.
- An increasing number of births that met the *Appropriate Care* criteria (See Data Definitions) in the 2008-2010 interval resulted in a three percentage point increase over last year's tally. The number of districts with *Appropriate Care* rates of 90% or more grew dramatically from 29 to 47. The number of PDs with rates below 80% decreased from 5 to 2.
- *Full or Near Term Births* ranged from just under 94% to 100% among PDs. The citywide rate of *Full and Near Term Births* is over 98% and did not change significantly between the 2008-2010 interval and the previous three year birth data interval.

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 welfare. 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 $57,000 according to 5-year ACS block group estimates from 2011. PD median incomes 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 2011, there were 4,089 *Families in Poverty* citywide, an estimated increase of 360 families pushing the family poverty rate to 8.5%. Poverty rates were highest in student districts, but four others around the city had rates of close to 30% or more (See Appendix C).
- Planning districts' estimated *Unemployment* rates ranged from 1% to 16%. Six planning districts had unemployment rates of 10% or more.
- Of the 63 PDs, 16 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% in the most outlying 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 declined from 12,280 to 11,646.
- According to 5-year ACS data, only three PDs had household vehicle access rates below 70%; all of them were located downtown.
- 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 80% to 90%) in *Bike Path Access* citywide. Access rates were over 75% for 52 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 8.1 among PDs. The citywide average decreased slightly from 7.0 to 6.9.

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. *What's New* and *Definitions* links on the website provide 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 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 both in order to protect the privacy of residents and due to poor reliability of estimates for very small areas.

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, NAs and census block groups were in some cases "clipped," retaining only those portions of tabulation geographies that lie within Madison city limits. Additional adjustments to the NA boundaries included removal of NAs 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 project provides neighborhood level summaries provided here are 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.

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* is an example of an item that is

shown only as a count. Users might deem it appropriate to calculate a rate for these occurrences using counts per person, per household, or per acre, each of which would produce a different result. In these instances, the exclusion of rates from the report requires users to determine the appropriate base from which to derive rates according to their particular needs.

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, resulting in a significant omission from MMSD household data provided. The third noteworthy source of error applies to the indicators derived from American Community Survey data. 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 inaccuracy.

While the limitations of the data warrant caution in the users' interpretation of them, the measures supplied here represent the project staff's best estimate with respect to assigning values to existing neighborhood conditions.

Data Corrections and Versioning

In four 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 2012

Allied Dunn's Marsh Neighborhood Assn.

Neighborhood Organization:
Information about the Allied Dunn's Marsh Neighborhood Assn. can be found at:
http://www.cityofmadison.com/neighborhoods/profile/1.html

Aldermanic District:
The neighborhood is within district(s) 10,14 and is represented by Alders(s) Brian L. Solomon, Tim Bruer.

Total Area: 195 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	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	937	n/a	920	n/a	108,541	n/a
Owner Occupied Units	245	29.2%	241	29.7%	50,388	49.3%
Total Population	2,384	n/a	2,157	n/a	232,626	n/a
Age						
Young Children (Age 0 to 4)	276	11.6%	254	11.8%	13,533	5.8%
Youth Population (Age 0 to 17)	926	38.9%	750	34.8%	40,645	17.5%
Senior Population (Age 65 and Over)	94	4.0%	96	4.5%	22,329	9.6%
Race and Ethnicity						
White	913	38.3%	731	33.9%	175,961	75.6%
Black or African American	828	34.7%	734	34.1%	16,518	7.1%
Asian	314	13.2%	117	5.4%	17,046	7.3%
Other Races or Multiracial	139	5.8%	102	4.7%	7,157	3.1%
Hispanic or Latino	189	7.9%	473	21.9%	15,944	6.9%
Household Structure						
Total Households	841	n/a	809	n/a	102,236	n/a
Family Households	527	62.7%	486	60.1%	47,706	46.7%
Families with Children	366	43.5%	322	39.8%	21,318	20.9%
Female Headed Families with Children	174	20.6%	179	22.1%	5,402	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	
	2011		2012		2012	
	Number	Percent or Rate	Number	Percent or Rate	Number	Percent or Rate
HOUSING CHARACTERISTICS						
Madison Dwelling Units	907	n/a	907	n/a	108,888	n/a
Campus Dwelling Units	0	n/a	0	n/a	5,192	n/a
Community Pride Violations	113	n/a	81	n/a	3,976	n/a
Property Foreclosures	5	n/a	3	n/a	508	n/a
Assisted Housing Units	343	n/a	350	n/a	6,416	n/a
Average House Value	$149,390	n/a	$128,086	n/a	$234,150	n/a
Square Foot Value of Housing	$125	n/a	$106	n/a	$125	n/a
Median Year Built	1964	n/a	1964	n/a	1972	n/a
HEALTH & FAMILY WELL-BEING						
Kindergarten Preparedness*	Spr*	Spr*	Spr*	Spr*	7,688	61.7%
Parent Education Level: No High School Diploma/G.E.D.*	Spr*	Spr*	Spr*	Spr*	1,372	7.5%
Parent Education Level: College Graduate*	Spr*	Spr*	Spr*	Spr*	9,308	50.9%
High Mobility Students*	Spr*	Spr*	Spr*	Spr*	1,492	6.8%
Economically Disadvantaged Students*	Spr*	Spr*	Spr*	Spr*	10,416	47.6%
Infant Health: Term or Near Term Births	Spr*	Spr*	Spr*	Spr*	8,242	98.2%
Maternal Health: Appropriate Care	Spr*	Spr*	Spr*	Spr*	7,455	91.3%
COMMUNITY ACTION & INVOLVEMENT						
Registered Voter Turn-out	n/a	n/a	n/a	n/a	n/a	n/a
Youth Opportunity Index	1.9	n/a	2.2	n/a	1.7	n/a
ECONOMIC VITALITY						
Median Household Income	$49,862	n/a	$49,281	n/a	$57,124	n/a
Families in Poverty	73	19.3%	Spr*	Spr*	4,089	8.5%
Unemployment	n/a	n/a	Spr*	Spr*	8,403	6.0%
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	81	n/a	83	n/a	2,186	n/a
Crimes Against Property	175	n/a	153	n/a	9,822	n/a
Crimes Against Society	470	n/a	374	n/a	10,427	n/a
Crashes	74	n/a	63	n/a	11,706	n/a
Calls for EMS/Fire Service	400	n/a	368	n/a	25,472	n/a
TRANSPORTATION						
Transit Stop Access	n/a	98.8%	n/a	98.8%	n/a	60.4%
Available Transit Service	718	0.79	718	0.79	11,646	0.10
Households with Access to a Vehicle	603	91.1%	Spr*	Spr*	87,844	88.2%
Bike Path Access	907	100.0%	907	100.0%	102,454	89.8%
Pavement Condition	6.6	n/a	6.6	n/a	6.9	n/a

Notes:

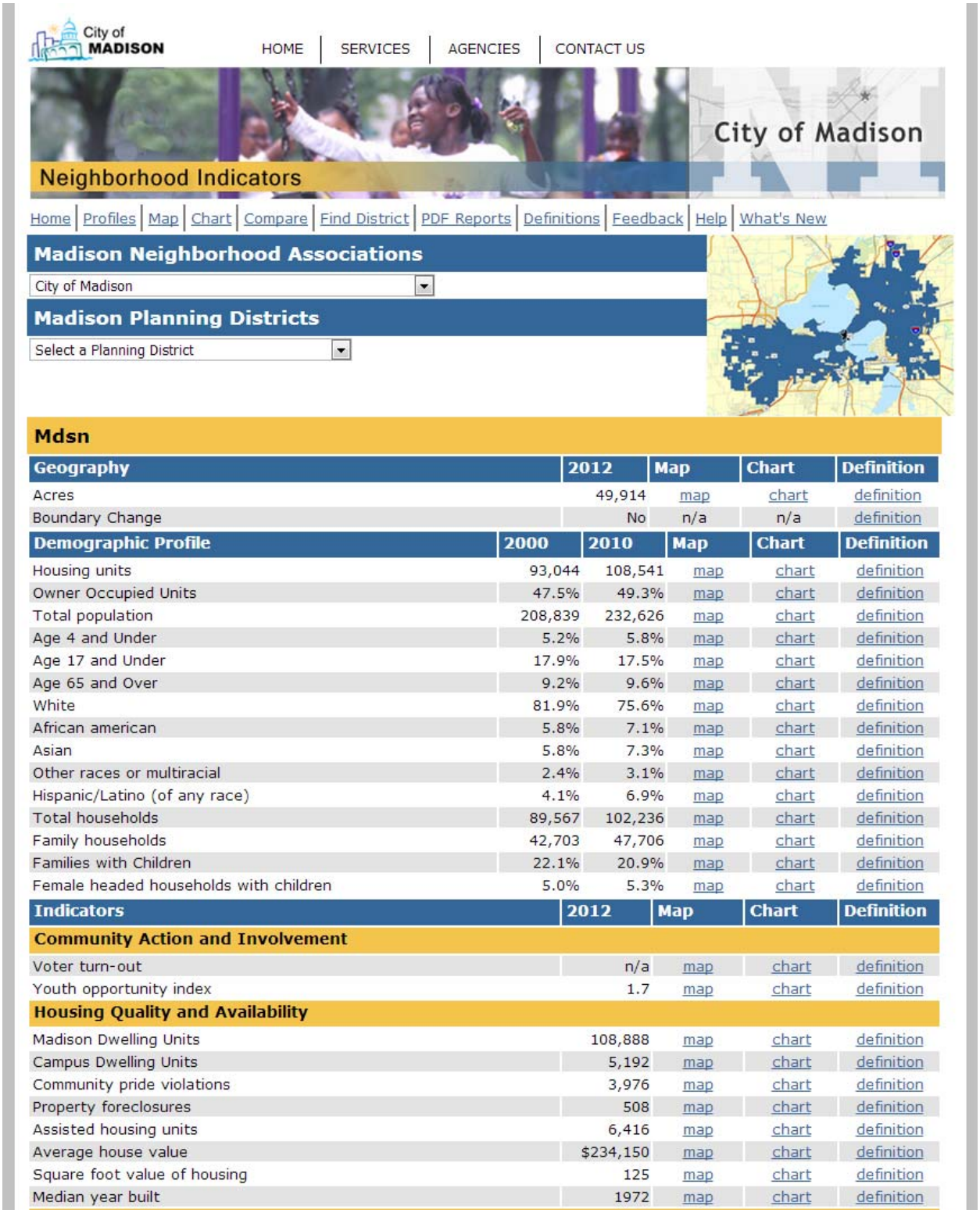
Time series data: In some instances year to year variation in counts and rates will reflect changes in the variable definition, geocoding success, or neighborhood boundaries. Data definitions for previous years can be found here: http://madison.apl.wisc.edu/definitions.php

* 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



Mdsn

Geography	2012	Map	Chart	Definition
Acres	49,914	map	chart	definition
Boundary Change	No	n/a	n/a	definition

Demographic Profile	2000	2010	Map	Chart	Definition
Housing units	93,044	108,541	map	chart	definition
Owner Occupied Units	47.5%	49.3%	map	chart	definition
Total population	208,839	232,626	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	89,567	102,236	map	chart	definition
Family households	42,703	47,706	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	2012	Map	Chart	Definition
Community Action and Involvement				
Voter turn-out	n/a	map	chart	definition
Youth opportunity index	1.7	map	chart	definition
Housing Quality and Availability				
Madison Dwelling Units	108,888	map	chart	definition
Campus Dwelling Units	5,192	map	chart	definition
Community pride violations	3,976	map	chart	definition
Property foreclosures	508	map	chart	definition
Assisted housing units	6,416	map	chart	definition
Average house value	$234,150	map	chart	definition
Square foot value of housing	125	map	chart	definition
Median year built	1972	map	chart	definition

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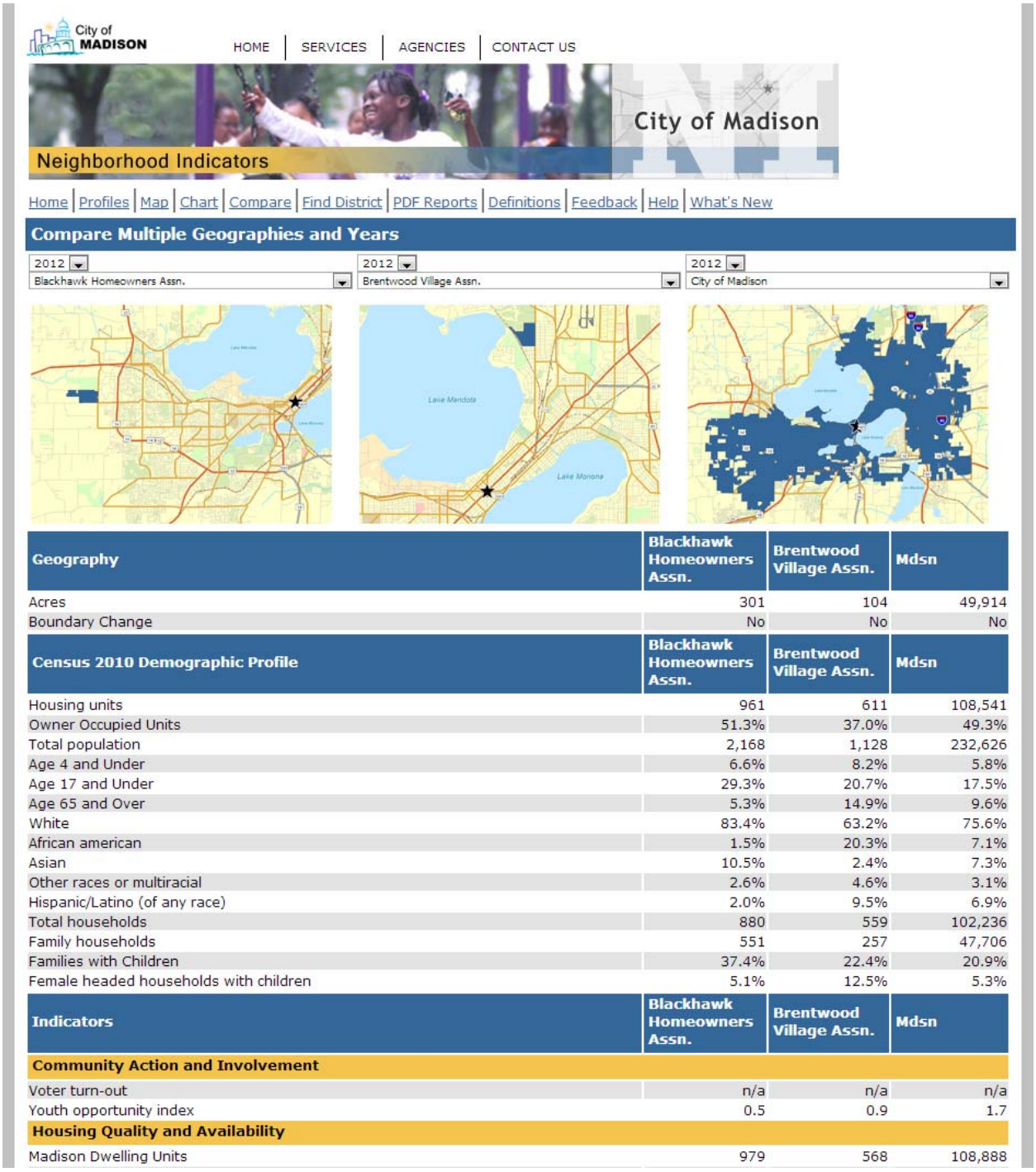
Web Comparison



City of MADISON

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City of Madison

Neighborhood Indicators

Home | Profiles | Map | Chart | Compare | Find District | PDF Reports | Definitions | Feedback | Help | What's New

Compare Multiple Geographies and Years

2012 Blackhawk Homeowners Assn. | 2012 Brentwood Village Assn. | 2012 City of Madison

Geography	Blackhawk Homeowners Assn.	Brentwood Village Assn.	Mdsn
Acres	301	104	49,914
Boundary Change	No	No	No
Census 2010 Demographic Profile	**Blackhawk Homeowners Assn.**	**Brentwood Village Assn.**	**Mdsn**
Housing units	961	611	108,541
Owner Occupied Units	51.3%	37.0%	49.3%
Total population	2,168	1,128	232,626
Age 4 and Under	6.6%	8.2%	5.8%
Age 17 and Under	29.3%	20.7%	17.5%
Age 65 and Over	5.3%	14.9%	9.6%
White	83.4%	63.2%	75.6%
African american	1.5%	20.3%	7.1%
Asian	10.5%	2.4%	7.3%
Other races or multiracial	2.6%	4.6%	3.1%
Hispanic/Latino (of any race)	2.0%	9.5%	6.9%
Total households	880	559	102,236
Family households	551	257	47,706
Families with Children	37.4%	22.4%	20.9%
Female headed households with children	5.1%	12.5%	5.3%
Indicators	**Blackhawk Homeowners Assn.**	**Brentwood Village Assn.**	**Mdsn**
Community Action and Involvement			
Voter turn-out	n/a	n/a	n/a
Youth opportunity index	0.5	0.9	1.7
Housing Quality and Availability			
Madison Dwelling Units	979	568	108,888

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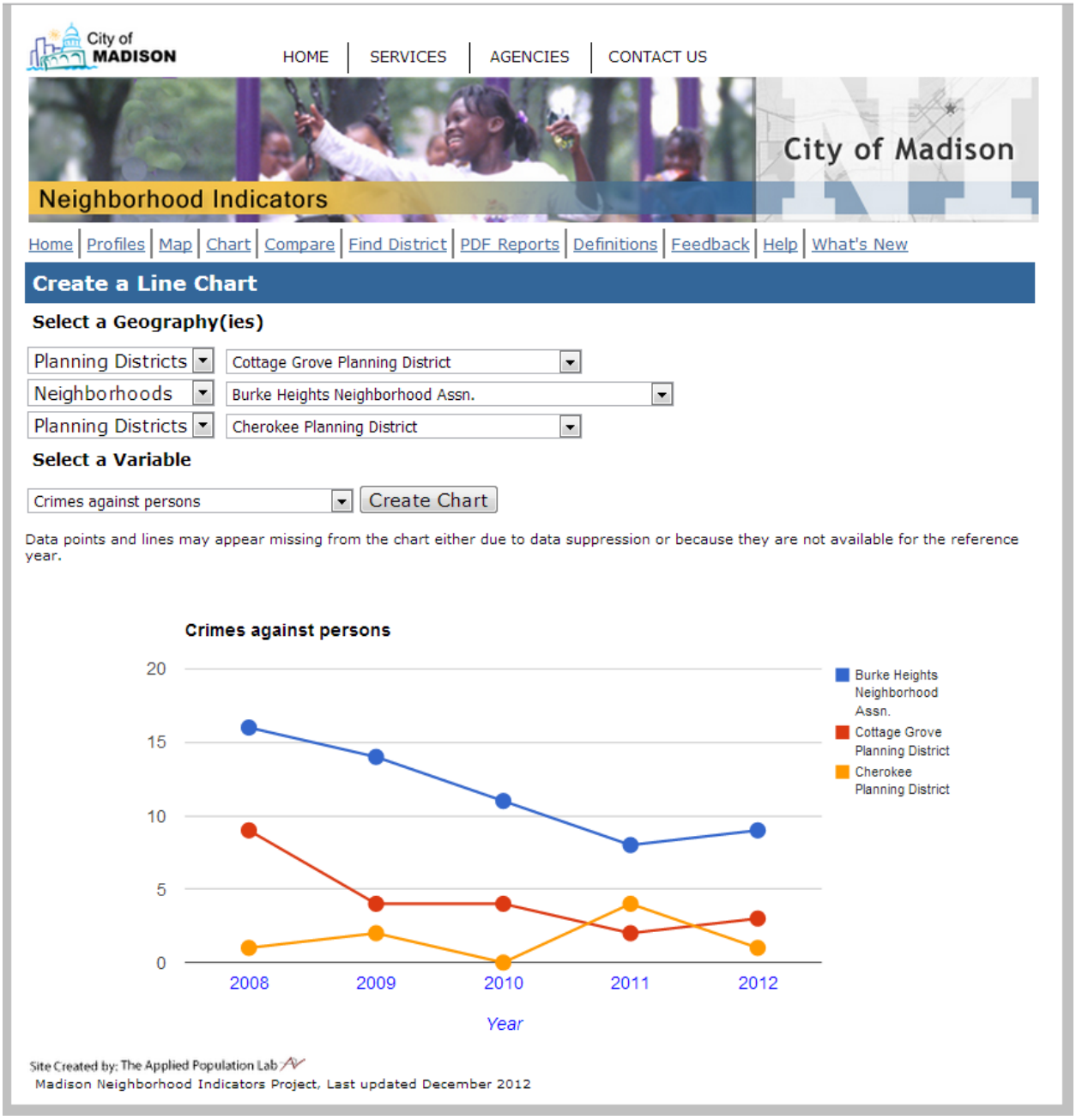
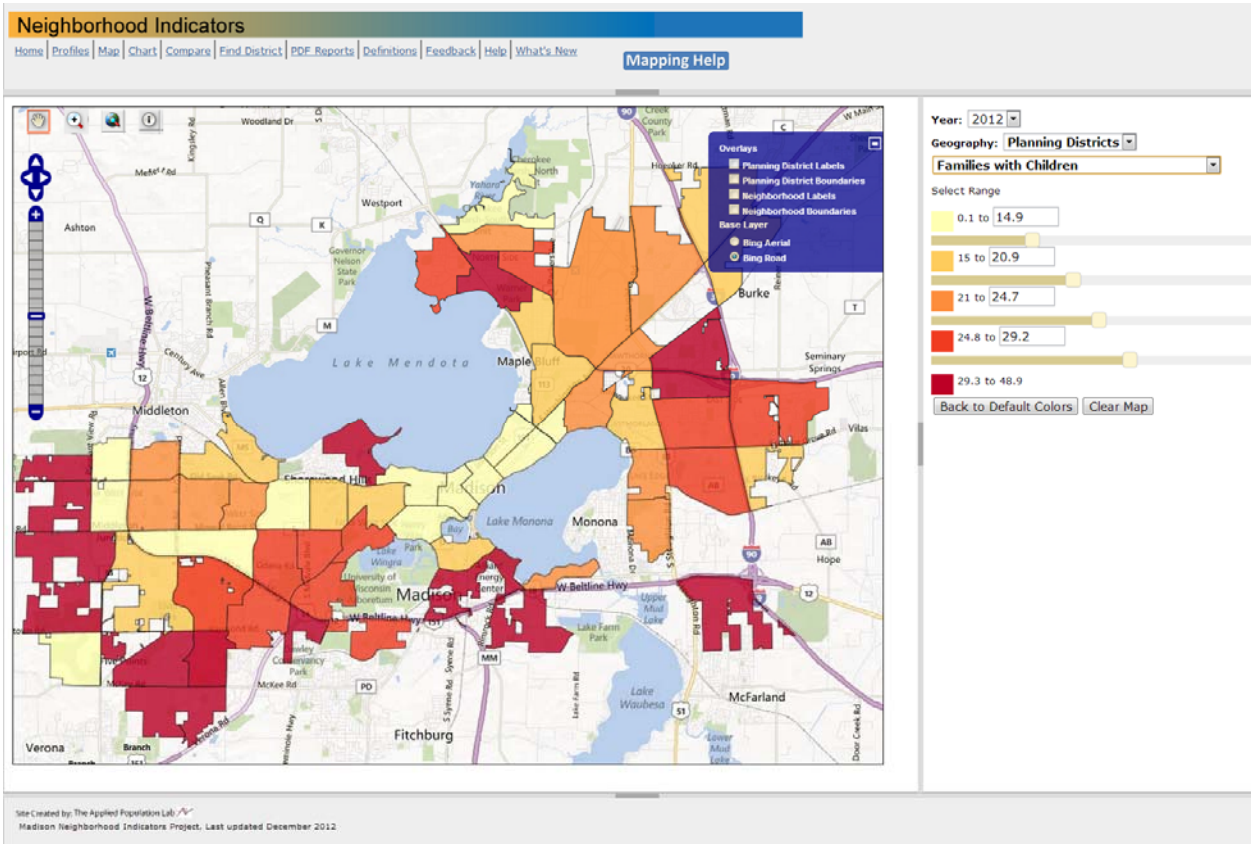
Web Charting



Web Mapping


Neighborhood Indicators
Home | Profiles | Map | Chart | Compare | Find District | PDF Reports | Definitions | Feedback | Help | What's New
Mapping Help
Overlays
Planning District Labels
Planning District Boundaries
Neighborhood Labels
Neighborhood Boundaries
Base Layer
Bing Aerial
Bing Road
Year: 2012
Geography: Planning Districts
Families with Children
Select Range
0.1 to 14.9
15 to 20.9
21 to 24.7
24.8 to 29.2
29.3 to 48.9
Back to Default Colors
Clear Map
Lake Mendota
Lake Monona
Lake Waubesa
Middleton
Monona
Fitchburg
McFarland
Verona
Ashton
Westport
Burke
Maple
Site Created by: The Applied Population Lab
Madison Neighborhood Indicators Project, Last updated December 2012

Descriptive Statistics: Planning Districts

	Madison (2012 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	93,044	108,541	1,468	20	5,674	1,064	1,718	91	6,654	1,158
Owner Occupied Units - Number	42,556	50,388	671	9	2,000	498	798	0	2,300	506
Owner Occupied Units - Percent	47.5	49.3	54.2	0.8	98.2	25.6	54.5	0.0	97.5	24.6
Total Population	208,839	232,626	3,297	42	15,689	2,542	3,683	143	16,320	2,569
Age										
Preschool Age Population (Age 0 to 4) - Number	10,872	13,533	172	0	462	124	214	2	764	155
Preschool Age Population (Age 0 to 4) - Percent	5.2	5.8	5.7	0.2	15.3	2.9	6.3	0.0	13.4	2.7
Youth Population (Age 0 to 17) - Number	37,446	40,645	591	6	1,732	428	643	15	1,920	426
Youth Population (Age 0 to 17) - Percent	17.9	17.5	19.5	0.5	38.5	7.2	19.0	0.2	34.5	7.3
Population Age 65 and Over - Number	19,263	22,329	304	6	1,379	255	353	7	969	230
Population Age 65 and Over - Percent	9.2	9.6	11.1	0.2	44.4	7.6	11.7	0.2	48.6	8.5
Race and Ethnicity										
White - Number	170,968	175,961	2,698	41	13,339	2,176	2,786	120	13,198	2,101
White - Percent	81.9	75.6	83.4	27.8	100.0	13.7	75.7	24.1	94.6	14.3
Black or African American - Number	12,123	16,518	192	0	1,235	226	261	5	1,216	254
Black or African American - Percent	5.8	7.1	5.8	0.0	33.6	6.7	7.2	0.9	33.7	6.5
Asian -Number	12,010	17,046	190	0	1,412	274	270	11	1,564	341
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	7,157	80	0	308	62	113	0	450	78
Other Race or Multiracial - Percent	2.4	3.1	2.3	0.0	6.0	1.2	3.0	0.1	6.1	1.1
Hispanic or Latino - Number	8,656	15,944	137	0	836	147	252	6	973	221
Hispanic or Latino - Percent	4.1	6.9	3.6	0.0	19.8	3.0	7.0	1.4	28.5	5.7
Household Structure										
Total Housholds	89,567	102,236	1,414	20	5,481	1,035	1,618	73	6,288	1,093
Family Households - Number	42,703	47,706	673	10	1,821	443	755	25	1,815	440
Family Households - Percent	47.7	46.7	54.3	4.2	83.3	17.2	51.1	2.2	78.4	16.4
Families with Children - Number	19,768	21,318	312	2	898	223	337	2	1,066	221
Families with Children - Percent	22.1	20.9	24.2	0.3	52.5	10.1	23.0	0.1	46.9	9.9
Female headed families with children - Number	4,490	5,402	71	0	191	60	86	2	277	66
Female headed families with children - Percent	5.0	5.3	5.2	0.0	20.2	3.8	5.8	0.1	21.3	4.0

(table continued below)

Descriptive Statistics: Planning Districts (Continued from above)

	Madison		Planning Districts							
	2011	2012	2011				2012			
			Mean	Min.	Max.	Std. Dev.	Mean	Min.	Max.	Std. Dev.
Acres	49,882	49,914	655	250	2,351	338	656	247	2,351	338
Housing Characteristics										
Madison Dwelling Units	108,294	108,888	1,713	51	7,589	1,256	1,723	51	7,644	1,259
Campus Dwelling Units	5,095	5,192	81	0	1,781	345	82	0	1,943	355
Community Pride Violations	3,632	3,976	57	0	419	77	63	0	521	87
Property Foreclosures	595	508	9	0	31	9	8	0	27	7
Assisted Housing Units	6211	6459	98	0	609	131	102	0	604	134
Average house value	$ 241,067	$ 234,150	$253,418	$141,335	$515,728	$ 82,247	$245,803	$128,086	$519,057	$ 83,604
Square foot value of housing	$ 130	$ 125	$ 132	$ 96	$ 190	$ 24	$ 126	$ 92	$ 189	$ 25
Median year built	1971	1972	1972	1916	2008	24	1972	1917	2008	24
Health & Family Well-Being										
Kindergarten Preparedness - Number	8,036	7,689	127	0	429	104	122	0	443	100
Kindergarten Preparedness - Percent	64.3	61.7	64.9	20.1	100.0	17.7	62.2	3.1	100.0	20.6
Parent Education Level: No H.S. Diploma/G.E.D. - Num.	1,343	1,372	21	0	144	27	22	0	162	30
Parent Education Level: No H.S. Diploma/G.E.D. - Pct.	7.5	7.5	6.6	0.0	25.9	6.7	6.2	0.0	27.9	6.8
Parent Education Level: College Graduate - Number	9,169	9,308	145	0	541	123	147	0	568	126
Parent Education Level: College Graduate - Percent	51.2	50.9	55.7	5.0	100.0	27.8	55.8	0.0	100.0	29.1
High mobility students - Number	1,472	1,492	23	0	110	23	23	0	97	24
High mobility students - Percent	6.8	6.8	7.0	0.0	32.0	6.2	6.3	0.0	33.4	5.1
Economically Disadvantaged Students - Number	10,110	10,416	160	0	703	166	164	0	726	171
Economically Disadvantaged Students - Percent	46.9	47.6	41.7	0.0	90.1	26.3	44.7	0.1	100.0	28.0
Infant Health: Term or Near Term Births - Percent	98.0	98.2	98.4	92.7	100.0	1.6	98.5	93.9	100.0	1.6
Maternal Health: Appropriate Care - Percent	88.3	91.3	89.1	73.5	100.0	5.6	91.9	78.1	100.0	4.7
Community Action & Involvement										
Youth opportunity index*	1.7	1.7	1.2	0.0	5.1	1.1	1.2	0.0	5.1	1.1
Economic Vitality										
Median houshold income	$56,171	$57,124	$61,118	$12,483	$112,835	$20,610	$61,773	$14,219	$108,802	$20,702
Families in poverty (among families) - Number	3,729	4,089	59	0	299	67	65	0	296	71
Families in poverty (among families) - Percent	7.9	8.5	9.6	0.0	85.8	14.4	10.0	0.0	76.1	13.9
Unemployment - Number	n/a	8403	n/a	n/a	n/a	n/a	133	4	671	108
Unemployment - Percent	n/a	6.0	n/a	n/a	n/a	n/a	6.2	1.4	16.1	3.2
Public Safety										
Crimes against persons	2,217	2,186	32	0	202	36	31	0	233	38
Crimes against property	10,030	9,822	139	1	837	160	134	0	813	146
Crimes against society	10,048	10,427	139	1	1,321	209	141	0	1,309	207
Crashes	12,166	11,706	94	3	466	95	79	1	283	74
Calls for EMS / fire service	23,939	25,472	357	2	1,685	314	381	8	1,846	342
Transportion										
Transit Stop Access - Percent	60.5	60.4	73.5	0.0	100.0	31.2	73.5	0.0	100.0	31.2
Available Transit Service - Trips	12,280	11,646	1,390	0	7,237	1,585	1,365	0	6,579	1,516
Available Transit Service - Rate	0.1	0.1	0.8	0.0	3.9	0.8	0.8	0.0	3.9	0.8
Households with access to a vehicle - Number	86,629	87,844	1,371	63	3,346	788	1,390	65	3,330	788
Households with access to a vehicle - Percent	88.4	88.2	91.2	47.7	100.0	9.3	91.1	50.9	100.0	9.2
Bike Path Access - Number	90,838	102,454	1,438	0	7,834	1,345	1,622	0	8,770	1,404
Bike Path Access - Percent	80.1	89.8	69.9	0.0	100.0	34.0	83.3	0.0	100.0	28.1
Pavement Condition	7.0	6.9	7.0	5.0	8.5	0.7	6.9	4.2	8.1	0.7

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

Descriptive Statistics: Neighborhood Associations

	Madison (2012 Bndry)		Neighborhood Associations (2012 Boundaries)							
	Census 2000	Census 2010	Census 2000				Census 2010			
			Mean	Min.	Max.	Std. Dev.	Mean	Min.	Max.	Std. Dev.
Number of Housing Units	93,044	108,541	837	0	6,388	856	935	101	8,002	980
Owner Occupied Units - Number	42,556	50,388	398	0	1,544	352	445	0	1,539	342
Owner Occupied Units - Percent	47.5	49.3	59.2	0.5	98.9	27.7	59.6	0.0	99.6	26.2
Total Population	208,839	232,626	1,902	1	12,341	1,872	2,034	213	13,843	1,953
Age										
Preschool Age Population (Age 0 to 4) - Number	10,872	13,533	100	0	419	81	115	2	387	88
Preschool Age Population (Age 0 to 4) - Percent	5.2	5.8	6.2	0.1	15.6	3.0	6.6	0.0	18.6	3.0
Youth Population (Age 0 to 17) - Number	37,446	40,645	352	1	1,066	267	359	6	1,076	253
Youth Population (Age 0 to 17) - Percent	17.9	17.5	21.9	0.3	41.7	8.2	20.8	0.1	39.9	7.6
Population Age 65 and Over - Number	19,263	22,329	168	0	854	173	186	11	720	164
Population Age 65 and Over - Percent	9.2	9.6	10.3	0.2	33.7	7.2	10.9	0.2	35.1	7.1
Race and Ethnicity										
White - Number	170,968	175,961	1,555	1	10,293	1,615	1,547	109	11,346	1,628
White - Percent	81.9	75.6	81.5	24.9	100.0	16.7	74.0	20.1	94.8	17.5
Black or African American - Number	12,123	16,518	117	0	828	169	149	0	800	177
Black or African American - Percent	5.8	7.1	6.6	0.0	39.8	8.4	8.6	0.0	47.0	9.6
Asian -Number	12,010	17,046	108	0	1,398	194	135	3	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	7,157	47	0	277	46	63	0	374	58
Other Race or Multiracial - Percent	2.4	3.1	2.4	0.0	6.9	1.3	3.2	0.2	9.0	1.3
Hispanic or Latino - Number	8,656	15,944	77	0	601	96	141	3	671	150
Hispanic or Latino - Percent	4.1	6.9	4.1	0.0	24.7	4.0	7.5	1.2	34.0	6.3
Household Structure										
Total Housholds	89,567	102,236	808	0	6,208	833	884	97	7,298	912
Family Households - Number	42,703	47,706	392	0	1,242	292	418	28	1,189	276
Family Households - Percent	47.7	46.7	58.3	3.3	94.9	18.3	55.9	1.9	84.7	16.4
Families with Children - Number	19,768	21,318	184	0	569	141	187	2	531	131
Families with Children - Percent	22.1	20.9	27.7	0.2	61.8	12.1	25.5	0.1	51.9	10.0
Female headed families with children - Number	4,490	5,402	41	0	174	42	48	2	215	44
Female headed families with children - Percent	5.0	5.3	5.6	0.0	27.6	5.0	6.8	0.1	43.9	6.4

(table continued below)

Descriptive Statistics: Neighborhood Associations (Continued from above)

	Madison		Neighborhood Associations							
	2011	2012	2011				2012			
			Mean	Min.	Max.	Std. Dev.	Mean	Min.	Max.	Std. Dev.
Acres	49,882	49,914	281	21	724	183	274	20	725	184
Housing Characteristics										
Madison Dwelling Units	108,294	108,888	946	51	8,446	1,045	933	51	8,501	1,038
Campus Dwelling Units	5,095	5,192	37	0	1,650	224	35	0	1,619	216
Community Pride Violations	3,632	3,976	38	0	592	71	40	0	673	78
Property Foreclosures	595	508	5	0	29	5	4	0	22	4
Assisted Housing Units	6211	6459	56	0	758	115	56	0	749	114
Average house value	$ 241,067	$ 234,150	$238,495	$127,712	$533,643	$ 86,860	$231,239	$112,920	$535,821	$ 88,326
Square foot value of housing	$ 130	$ 125	$ 126	$ 96	$ 194	$ 24	$ 121	$ 90	$ 193	$ 24
Median year built	1971	1972	1968	1913	2005	22	1969	1914	2005	22
Health & Family Well-Being										
Kindergarten Preparedness - Number	8,036	7,689	77	0	319	68	71	0	300	65
Kindergarten Preparedness - Percent	64.3	61.7	64.7	20.3	95.7	19.0	60.6	0.2	100.0	22.8
Parent Education Level: No H.S. Diploma/G.E.D. - Num.	1,343	1,372	12	0	92	18	13	0	101	20
Parent Education Level: No H.S. Diploma/G.E.D. - Pct.	7.5	7.5	6.7	0.0	41.5	8.1	6.5	0.0	45.4	8.6
Parent Education Level: College Graduate - Number	9,169	9,308	87	0	412	84	85	0	408	83
Parent Education Level: College Graduate - Percent	51.2	50.9	53.4	0.0	100.0	29.5	53.8	0.0	99.9	29.0
High mobility students - Number	1,472	1,492	14	0	98	18	13	0	72	16
High mobility students - Percent	6.8	6.8	6.4	0.0	21.6	5.1	6.3	0.0	33.4	5.6
Economically Disadvantaged Students - Number	10,110	10,416	93	0	506	110	93	0	499	111
Economically Disadvantaged Students - Percent	46.9	47.6	43.2	0.0	95.5	29.0	43.7	0.0	100.0	29.1
Infant Health: Term or Near Term Births - Percent	98.0	98.2	98.3	92.3	100.0	1.8	98.3	83.3	100.0	2.4
Maternal Health: Appropriate Care - Percent	88.3	91.3	87.6	61.9	100.0	7.8	90.5	66.7	100.0	7.1
Community Action & Involvement										
Youth opportunity index*	1.7	1.7	1.4	0.0	6.8	1.4	1.4	0.0	6.7	1.4
Economic Vitality										
Median houshold income	$56,171	$57,124	$60,040	$7,698	$125,096	$21,573	$61,059	$9,469	$127,114	$22,214
Families in poverty (among families) - Number	3,729	4,089	31	0	164	35	34	0	235	43
Families in poverty (among families) - Percent	7.9	8.5	10.7	0.0	87.5	15.0	11.2	0.0	78.6	14.9
Unemployment - Number	n/a	8403	n/a	n/a	n/a	n/a	77	0	562	87
Unemployment - Percent	n/a	6.0	n/a	n/a	n/a	n/a	6.8	0.0	20.6	4.4
Public Safety										
Crimes against persons	2,217	2,186	20	0	188	29	19	0	181	30
Crimes against property	10,030	9,822	74	0	818	107	71	0	796	101
Crimes against society	10,048	10,427	89	0	1,101	175	85	0	1,170	170
Crashes	12,166	11,706	50	0	462	73	41	0	379	57
Calls for EMS / fire service	23,939	25,472	193	3	2,308	274	199	5	2,565	299
Transportion										
Transit Stop Access - Percent	60.5	60.4	81.8	0.0	100.0	27.8	82.3	0.0	100.0	27.5
Available Transit Service - Trips	12,280	11,646	1,018	0	7,142	1,292	1,002	0	6,484	1,239
Available Transit Service - Rate	0.1	0.1	1.2	0.0	5.2	1.0	1.2	0.0	5.2	1.1
Households with access to a vehicle - Number	86,629	87,844	751	90	3,770	598	749	89	4,128	620
Households with access to a vehicle - Percent	88.4	88.2	91.4	36.5	100.0	9.6	91.2	38.1	100.0	9.9
Bike Path Access - Number	90,838	102,454	783	0	5,986	962	868	0	7,349	1,036
Bike Path Access - Percent	80.1	89.8	74.8	0.0	100.0	31.9	87.9	0.0	100.0	24.2
Pavement Condition	7.0	6.9	7.0	4.5	8.4	0.8	6.8	4.0	8.6	0.8

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

NI 2012 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 09/14/2012; Planning districts: City of Madison Planning & Development Unit, received 09/14/2012.

Geographic Boundary Change 2012: "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 2012 tabulation geography.

Owner Occupied Homes (Census 2000 & 2010): Estimated number and percent of occupied housing units that are owner occupied.
Source: Census 2000 & 2010 block data, APL interpolation to 2012 tabulation geography.

Total population (Census 2000 & 2010): Estimated total population.
Source: Census 2000 & 2010 block data, APL interpolation to 2012 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 2012 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 2012 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 2012 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 2012 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 2012 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 2012 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 2012 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 2012 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 2012 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 2012 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 2012 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 2012 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 09/28/2012; Madison Assessor commercial properties database, received 09/04/2012.

Campus Dwelling Units: Estimated campus dwelling units in UW and Edgewood College residential housing facilities.
Source: UW & Edgewood Campus Dwelling Units, received 05/29/2012.

Community Pride Violations: Total community pride violations in 2011. Note: Community pride violations for this year are not comparable with violations from indicators 2009 and earlier indicators. 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 10/01/2012.

Property Foreclosures: Total foreclosure cases in 2011 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 56 foreclosure cases in Dane County that were not reconciled with a physical property location. Data for tabulation geographies other than Madison citywide are limited to incidents successfully geocoded at a small area geographic scale. Overall geocoding match rate for Dane County foreclosures: 94%.
Source: Dr. Russ Kashian, Fiscal and Economic Research Center - University of Wisconsin-Whitewater and Matt Kures UW-Extension Center for Community Economic Development, received 07/03/2012.

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. This indicator is 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 09/28/2012.

Square foot value of housing: Total housing value (land & improvements) among single dwelling, owner-occupied units divided by the total finished floor area.
Source: Dwelling Units: City of Madison Planning & Development Unit, SITUS database, received 09/28/2012.

Median year built: Median year built for dwelling units including both single family dwelling units and multi-family units.
Source: Dwelling Units: City of Madison Planning & Development Unit, SITUS database, received 09/28/2012; Madison Assessor commercial properties database, received 09/04/2012.

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 57% of MMSD students in the City of Madison.
Source: Madison Metropolitan School District, received 03/19/2012; APL interpolation to 2012 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 84% of MMSD students in the City of Madison.
Source: Madison Metropolitan School District, received 03/19/2012; APL interpolation to 2012 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 84% of MMSD students in the City of Madison.
Source: Madison Metropolitan School District, received 03/19/2012; APL interpolation to 2012 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 03/19/2012; APL interpolation to 2012 tabulation geography.

Economically disadvantaged lunch 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 03/19/2012; APL interpolation to 2012 tabulation geography.

Infant health: term or near term: Number and percent of all 2008-2010 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 08/31/2012.

Maternal health: appropriate care: Number and percent of all 2008-2010 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 08/31/2012.

Registered voter turn-out: Not available as a 2012 indicator.

Youth opportunity index: This indicator considers community centers, schools, libraries, and religious institutions as potential sites for youth involvement. This index score represents a weighted average count of youth opportunities within 1/4 mile of each neighborhood dwelling unit. Community centers were given a weight of 3; libraries 2; schools 1 if they had a before or after school program and 2 if they had both; and religious organizations 1. To produce the weighted average opportunity score, the aggregate of weighted "opportunities" for all neighborhood dwellings was divided by the total number of neighborhood dwellings.
Source: Dwelling Units: City of Madison Planning & Development Unit, SITUS database, received 09/28/2012; Madison Assessor commercial properties database, received 09/04/2012; UW & Edgewood Campus Dwelling Units, received 05/29/2012; Community Centers: City of Madison Planning & Development Unit, received 09/14/2012; Libraries & Religious Organizations: InfoUSA data from ArcGIS Business Analyst, 11/30/2011; School Locations: Madison Metropolitan School District, received 09/21/09; School Program Info: MMSD website 10/23/2012; APL proximity calculation.

Median Household Income (2007-2011): Estimated median household income.
Source: 2011 American Community Survey, 5-Year Block Group and Madison Estimates (reliability for small tabulation geographies may be low), APL interpolation to 2012 tabulation geography.

Families in Poverty (2007-2011): Estimated number and percent of families in poverty.
Source: 2011 American Community Survey, 5-Year Block Group and Madison Estimates (reliability for small tabulation geographies may be low), APL interpolation to 2012 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, 10/29/2012; APL proximity calculation.

Crimes against persons: Total crimes against persons in 2011 (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: 94%.
Source: 2011 Incidents Records from Madison Police Department, received 05/29/2012; geocoded by MPD & APL.

Crimes against property: Total crimes against property in 2011 (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: 2011 Incidents Records from Madison Police Department, received 05/29/2012; geocoded by MPD & APL.

Crimes against society: Total crimes against society in 2011 (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: 89%.
Source: 2011 Incidents Records from Madison Police Department, received 05/29/2012; geocoded by MPD & APL.

Crashes: Total automobile crashes in 2011. Data for tabulation geographies other than Madison citywide are limited to incidents successfully geocoded. Overall geocoding match rate for crashes: 47%.
Source: 2011 Incidents Records from Madison Police Department, received 05/29/2012; geocoded by MPD & APL.

Calls for EMS/Fire service: Total calls for emergency medical service and fire service in 2011. 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 09/05/2012; 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, 09/24/2012 ; 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 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 - Metro Transit, 09/24/2012; Dwelling Units: City of Madison Planning & Development Unit, SITUS database, received 09/28/2012; Madison Assessor commercial properties database, received 09/04/2012; UW & Edgewood Campus Dwelling Units, received 05/29/2012; APL proximity calculation.

Households with Access to a Vehicle (2007-2011): Number and percent of households with access to a private vehicle at home.
Source: 2011 American Community Survey, 5-Year Block Group and Madison Estimates (reliability for small tabulation geographies may be low), APL interpolation to 2012 tabulation geography.

Bike path access: Number and percent of dwelling units that lie within 1/2 mile of a bike path.
Source: Dwelling Units: City of Madison Planning & Development Unit, SITUS database, received 09/28/2012; Madison Assessor commercial properties database, received 09/04/2012; UW & Edgewood Campus Dwelling Units, received 05/29/2012; Bike Paths: Madison Area Transportation Planning Board (updated sourcing methods), received 08/23/2012; 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 11/30/2012; APL summary calculation.

Definitions last updated: January 11, 2013

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

In order to limit the file size of this 2012 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.html

Appendix D. Individual Neighborhood and Planning District Reports

In order to limit the file size of this 2012 NHI overview report, Appendix D is made available as a separate file and can be accessed via the link below:

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