



MetroGIS™

# MetroGIS Policy Board Meeting Minutes [Draft]

Thursday, October 23, 2014, 6:00 pm – 8:00 pm

Metropolitan County Government Center

2099 University Avenue, St. Paul, MN

## **Board Members Present:**

Terry Schneider, Metro Cities/ City of Minnetonka, Policy Board Chair  
Debbie Goettel, Metro Cities/City of Richfield  
Mary Texer, Capitol Region Watershed District  
Steve Elkins, Metropolitan Council  
Victoria Reinhardt, Ramsey County Commissioner  
Mjyke Nelson, Washington County, Director of Information Technology  
Chris Gerlach, Dakota County Commissioner  
Pete Henschel, Carver County GIS Manager (Alternate for R. Maluchnik)

## **Board Members Absent:**

Jim Kordiak, Anoka County  
Randy Maluchnik, Vice Chair, Carver County  
Dave Menden, Scott County  
Randy Johnson, Hennepin County

## **Present:**

Dave Hinrichs, Metropolitan Council Chief Information Officer  
Mark Kotz, Metropolitan Council, Coordinating Committee Member  
Randy Knippel, Dakota County GIS Manager, Coordinating Committee Member  
Erik Dahl, Environmental Quality Board, Coordinating Committee Chair  
David Brandt, Washington County, Vice-Chair MetroGIS Coordinating Committee  
Matt Koukol, Ramsey County GIS Manager, Coordinating Committee Member  
Dan Ross, State GIO, MnGeo, Coordinating Committee Member  
Nancy Read, Metropolitan Mosquito Control Board, Coordinating Committee Member  
Curt Carlson, Northstar MLS, MetroGIS Coordinating Member

## **Staff:**

Geoff Maas, MetroGIS Coordinator

### **1 ) Call to Order**

Chair Schneider called the meeting to order at 6:15 PM

### **2 ) Approval of Meeting Agenda**

Chair Schneider called for a motion to approve the meeting agenda

Motion: Texer, Second: Reinhardt, motion carried

### **3 ) Approve Meeting Summary from 10/23/2013**

Chair Schneider called for a motion to approve the minutes from the last meeting (10/23/2013)

Motion: Texer, Second: Reinhardt, motion carried

### **4) Confirmation of Change of Practice regarding Policy Board Operation**

Chair Schneider reaffirmed the changing nature of the MetroGIS collaborative and the need for the Policy Board to respond to this change. He directed Coordinator Maas to summarize the points of recommended modification from prior discussions for the group, these included:

- The MetroGIS Policy Board is to continue operation as the policy body for the MetroGIS collaborative and to formally convene once per calendar year;
- The Policy Board will hold its annual meeting each April beginning in calendar year 2015. Holding the annual meeting in April provides ample time for review by the Board of any relevant actions or proposals anticipated in upcoming Legislative sessions;
- The Coordinating Committee can request that the Policy Board convene if there are items of significant fiscal or political import requiring policy-maker level attention, decision-making and support.
- The Policy Board can be called to convene at other times than the annual meeting with a 30-day notice to members. Any meeting dates desired outside of the annual meeting will be as near as possible to the usual established dates of the original quarterly schedule.
- Quarterly report briefs to the Policy Board members from the MetroGIS Coordinator on the activities and projects of the stakeholder community—*in lieu of formally scheduled quarterly meetings*—are to continue and will serve as a primary means of updating the Policy Board between the annual April meetings.
- The next scheduled Annual Meeting would convene on Thursday, April 30, 2015 at the Metropolitan Counties Government Center, 2099 University Avenue, St Paul, Minnesota.

Chair Schneider made a further recommendation that future meeting times be pushed to 7 pm and asked for a motion to approve the statements defining the change in operation.

Motion: Reinhardt, Second: Texer, motion carried. Chair Schneider directed Coordinator Maas to add these formal revisions to the language of the MetroGIS Operational Guidelines and Procedures.

## **Agenda Item 5) MetroGIS Project Updates**

Members of the Coordinating Committee and MetroGIS staff provided updates on the progress of the numerous MetroGIS projects presently underway.

### **5a ) Free and Open Data Update and Summary**

Randy Knippel (MetroGIS Data Producer Work Group Chair) provided an update on the current status and progress of the adoption of open data policies by counties in the metro and in Greater Minnesota. These included the adoption of formal open data policies in spring 2014 by Ramsey, Hennepin, Dakota, Carver and Anoka Counties, the consideration of policies by Washington and Scott Counties and the potential of counties in Greater Minnesota such as Stearns and Clay Counties working toward policy adoption.

Knippel went on to describe the benefits being realized by county staff with the change such as the elimination of the burden of administering licenses and fee transactions for marginal benefit and eliminating the need to implement onerous security measures. Knippel stated that the counties are well positioned to leverage the benefits of the Minnesota Geospatial Commons and at the present counties with open data have begun to pursue publishing their data through individual portals.

Knippel summarized the metro open data effort as a successful collaborative project and next steps include building an awareness of the availability of the data and promoting the use of that data. One event to meet that aim is the upcoming Hennepin County 'code-a-thon' called Hennepin Geo:Code which will partner Open Twin Cities, Code For America and eDemocracy.org and the 'civic technologist' community of the Twin Cities. In the language describing the event as the desire to create technology solutions that *"... improve county services, give residents greater access to government data and make a difference ..."*

Among the benefits of the open data is the ability for the public to use the data in innovative ways; open data leverages creativity for applications development which saves the county from having to anticipate every need and try to develop applications for it. Knippel described that this is a new frontier for us in Minnesota, that open data has opened new doors of possibility for making use of the data.

Coordinator Maas described the opportunity he had in September to present nationally on the topic at NSGIC (National States Geographic Information Council) at their annual conference in Charleston, South Carolina, co-presenting with New York GIO William Johnson. The topic was well received and Minnesota is seen as a strong test case example for the benefits of open geospatial data.

Mayor Goettel noted that we should work to benchmark other cities that are doing well with these efforts and work to capture the same benefits they have realized. She cited the City of

Detroit deploying GIS in innovative ways to assist and serve marginalized communities, and using fire fighters and fire departments as a means of outreach; citizens perceive fire fighters different than other officials or police officers.

Commissioner Reinhardt noted that in Ramsey County, GIS analysis is critical for identifying areas of economic need and understanding areas of concentrated poverty and how to leverage their improvement.

Mayor Schneider indicated he would appreciate seeing examples of these benefits in future summary reports and meetings and providing links to their work, applications and analyses.

**Curtis Carlson, Northstar Multiple Listing Service Presentation:**

Curtis Carlson is the GIS Coordinator of NorthStar MLS which provides information services to the over 14,000 real estate industry professionals in Minnesota and Western Wisconsin.

Mr. Carlson's presentation highlighted the specifics of the services they offer, the volume of data they manage and how they acquire that data. He cited the crucial role of GIS in serving their customers with good data and the tremendous benefit of access to open data for serving their client base. His presentation is appended to the end of these minutes.

**5b ) Changes to the Regional Parcel Dataset Agreement between the Seven Metropolitan Counties and the Metropolitan Council**

Coordinator Maas refreshed the group on the status of the Legal Agreement between the Metropolitan Council and the County governments; under which:

The Counties have provided parcel data in the MetroGIS standard, consistently updated metadata for the parcel data and access the historical parcel data (three years old and older) while the Metropolitan Council provides distribution of the data through DataFinder, administration of license agreements and \$4000/year to each county from MetroGIS' budget.

The current agreement which was executed in January 1, 2012 currently extends to January 1, 2016 and will end at that time. Both County and Council staff are seeking the transition to a Memorandum of Agreement to replace the legal contract which Highlights the value of continued collaboration between partners, does not focus on parcel data exclusively and still enables a portion of the MetroGIS budget to be directed to the county GIS departments to build applications and translation engines to get data into regional (and state) formats and standards.

County and Metropolitan Council staff proposed the development of a draft Memorandum of Agreement over the winter of 2014-2015, submittal of that document to the Policy Board members for their review, comment and approval at the April 30, 2015 Policy Board meeting.

Commissioner Reinhardt voiced her support for transitioning to a Memorandum of Agreement stating that this is an excellent demonstration of cooperation and trust among the partners and how the collaborative has evolved since the early days of working with each County Attorney's Office to craft the agreement language with significant cost and effort. She cited that the technology has evolved and our policies as governments need to evolve as well. She further stated that Minnesota and MetroGIS are examples to other states and regions in the arena of GIS and that this kind of agreement is a continued demonstration of our ability to work together to serve the public.

Nancy Read (Technical Director, Metropolitan Mosquito Control Board) stated that as a regional government, the Mosquito Control Board benefits greatly from not just the availability of the data but also its proliferation in a standardized format for the counties and having a means to maintain the data in the standard was a significant benefit to her organizations interest.

Mayor Schneider also voiced his support for the transition out from the encumbrances of the legal agreement to something that leverages the benefit of open data, benefiting the general public, private sector and how these various actors can to continue to work easily and effectively with one another.

Board Member Texer motioned that a draft Memorandum of Agreement be drafted by County and Council staff and submitted to the members of the Policy Board for formal review, comment and approval at the April 30, 2015. Commissioner Reinhardt seconded, motion carried. County and Council staff—working through the MetroGIS Data Producers Work Group/Eight County Collaborative—will commence work on the draft document for submittal to the Board.

### **5c ) U.S. National Grid Emergency Response Signage in Regional Parks and Trails**

Randy Knippel provided a presentation on the deployment of U.S. National Grid (USNG) Emergency Response Signage in regional parks and trails in Dakota County. He cited the need for this resource in large park areas with significant trail networks for guiding first-responders to respond to emergency situations.

The USNG has been a national standard since 2001, adopted by a range of federal agencies and states (by Minnesota in March 2009) and how it emerged from the Military Grid Referencing System as is in use by the National Guard and NATO forces, National Search and Rescue Committee. He highlighted its ease of use, the range of mobile applications available with make use of USNG, the work of SharedGeo in developing the signage and web application (usngapp.org) and the on-going work with first-responders to ensure they were able to use the system effectively and efficiently.

Commissioner Gerlach asked how this system differed from traditional latitude and longitude coordinates. Knippel indicated that the USNG functions better in the local arena as longitudes have east/west coordinates that use negative decimals (moving west). He also cited that the

use of the USNG is part of the standard military training and that the on-the-ground interpretation is much easier in a situation than working with latitude and longitude.

He further cited that simply because USNG is a national standard does not mean it has been effectively implemented nationwide. Upcoming efforts in the metro region include working with the City of St Paul (citing the recent tragedy in Lilydale Park) and Lebanon Hills Park working with the mountain biking groups who use that park.

The USNG presentation is appended to the end of these meeting minutes.

#### **5d ) General Fund Allocation for Geospatial Projects**

State Geospatial Information Officer Dan Ross presented the current state of statewide GIS and the current absence of full statewide layers of core geospatial data. He cited that at present, GIS is underfunded. As we ramp up to NextGen911 we need to be addressing the gaps in our data layers, but also for the many other uses and needs. Emergency response is a major driver to help leverage funding and awareness at the policy maker level. He stated he has strong support from Commissioner Parnell to keep the funding discussion moving.

Ross indicated that the Minnesota Geospatial Commons will be the focal point for delivery of data and collaboration. The site has been active since summer of 2014; however, it is not complete of fully populated with the data it needs to fulfill its intended purpose.

The future legislative proposal will focus on support for statewide data aggregation and standardization, the premise of publicly available data and services and that the Statewide Geospatial Advisory Council will prioritize and guide those investments. The focus will be on working with local governments to build and sustain the foundational data layers; we can leverage the work here in the metro and capitalize on that for work in Greater Minnesota.

Ross cited recent examples of successful programs including LIDAR data, a \$9 million dollar program creating a wealth of public useful data. He also cited the challenges of acquiring aerial imagery due to the seasonal conditions (leaf-on/leaf-off) and the one-time grants rather than sustainable funding that have made the program work thus far.

He further cited the need for working toward a standardized hydrographic data layer as at present the data is created, maintained and used by number of agencies interests. He indicated he will return to the Policy Board with updates on these development and potentially be seeking letters of support for advancing them further.

Board Member Texer indicated that when the time comes for support from the Policy Board, if we are between meeting cycles, some sort of email contact to solicit letters of support would be useful.

## **5e ) Road Centerline Initiatives Updates**

Maas provided a brief update on the need for and progress of the Statewide Centerline Initiative and Metro Regional Centerline Collaborative and the sunsetting of the NCompass contract in January of 2016. The Statewide effort has been centered around the needs of MnDOT for federal reporting and the eventual support of a linear reference system, while the metro effort has focused on meeting the specifically documented needs of the metro partners for routing, geocoding and emergency response.

Councilman Elkins stressed the need for the road data systems to conform to the State Aid data as it is linked to the funding to local jurisdictions. Dan Ross and Ramsey County GIS Manager Matt Koukol, both former employees of MnDOT, concurred that is an essential need that will take some effort as the State Aid practices are firmly in place to meet their specific needs.

Maas summarized the update with a chart showing the status of the state project, the metro project and the timeline for phasing out the NCompass contract in 2016. These materials are available in the presentation slides appending to the end of these minutes.

## **5f ) Address Point Data Progress**

Mark Kotz, Chair of the MetroGIS Addressing Work Group provided an update on the development of the standardized address point dataset in the Metro region. He provided a brief refresher on what address points are and why they are a needed core geospatial data layer for many business purposes such as emergency response, unit tracking, mailing and delivery and change notification streamlining. He reiterated the MetroGIS vision of having a point for every official address arising from the authoritative source (addressing authority) that are updated frequently, maintained in a standardized format and freely available to the public.

Kotz indicated that currently Dakota and Carver Counties have deployed the MetroGIS Addressing Tool (version 2.0) and have their points available via DataFinder. Three other counties, Anoka, Hennepin and Ramsey are actively testing the tool and that Scott and Washington Counties are considering the tool at present.

A new version of the tool (version 3.0) is in development and is anticipated to be available in January 2015, improvements to the tool include functionality for address change reporting, proposed address reports, calculation of a hypothetical address and improvements to the user interface. Version 3.0, like the previous versions will be freely available to any government in Minnesota and he cited that interest across the state is increasing in deploying this tool for creation of address point data.

Councilman Elkins asked how this tool and the resulting data synced up with the U.S. Postal Services mailing data and data standard. Kotz replied that the official address point represents the 'situs' address, which is technically not the same as the postal delivery address, however

there is the potential to carry both addresses in the MetroGIS tool and standard; both addresses can exist in the same database. His presentation is appending to the end of the minutes.

#### **5g ) Stormsewer Dataset Initiative**

Geoff Maas provided an overview of the past and current effort toward a project focused on a metro-wide stormsewer network dataset. He indicated the multi-faceted nature of this issue as there are many local, regional, state and federal legal and technical interests in the issue. He cited examples of groundwater recharge, aging infrastructure, management of intense storm events, water consumptions and changing regulations as compelling points for working to standardize the data so agencies and interests can work together effectively. Maas cited recent work in documenting the business cases and needs of self-identifying agencies and listed a number of other interests he would be interviewing in coming weeks and months to document their need. His presentation is appending to the end of the minutes.

#### **5h ) MetroGIS Awards in 2014**

Geoff Maas listed the three awards received by the MetroGIS Community in 2014. Commissioner Reinhardt was honored by the Minnesota GIS/LIS Consortium with the Lifetime Achievement Award, Coordinating Committee Member Hal Watson of the Department of Natural Resources was honored with the Minnesota GIS/LIS Consortium Polaris Award and the MetroGIS collaborative was honored by the University of Minnesota Humphrey School of Public Affairs and Bush Foundation with a State Government Innovation Award for its Free and Open Public Geospatial Data Initiative.

#### **6 ) Open Forum/Other Business**

No other topics were offered for discussion.

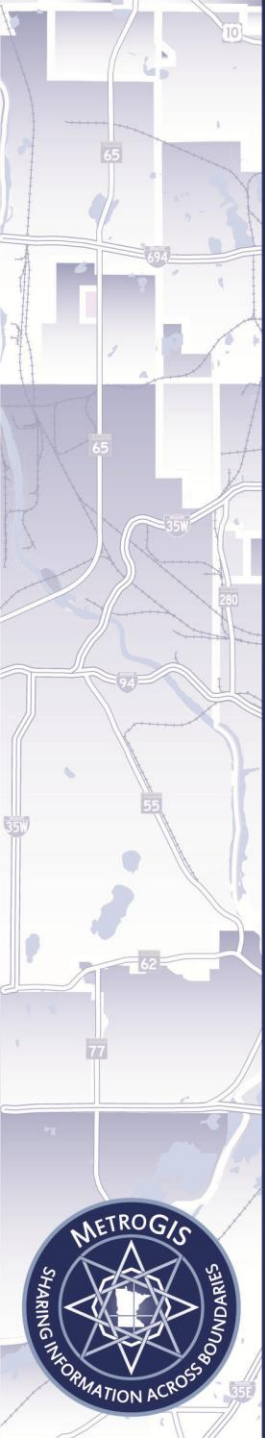
#### **7) Next Meeting**

The next in-person meeting of the Board will be on Thursday, April 30, 2015 at 7 pm;  
The next quarterly update to the Board will occur on (or near) Thursday, January 22, 2015.

#### **8) Adjournment**

Chair Schneider adjourned the meeting at 8:16 pm





# Agenda Item 5a: **Free and Open Data Update and Summary**

**Randy Knippel**

GIS Manager, Dakota County

Chair, MetroGIS Data Producers Work Group

**Geoff Maas**

MetroGIS Coordinator

**October 23, 2014**



# Open Data Timeline: 2013-2014

**October 23, 2013**

***MetroGIS Policy Board** adopted a **Resolution of Support**;*

**November 20, 2013:**

*Directed **Letters of Support** to each **Metro County Board***

**February 11, 2014:**

***Ramsey and Hennepin Counties** adopted open data policies;*

**March 25, 2014:**

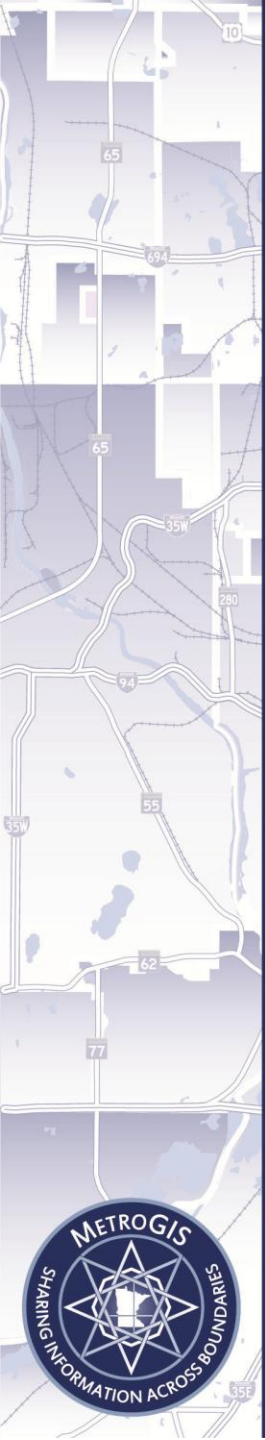
***Dakota County** adopted an open data policy;*

**April 1, 2014**

***Carver County** adopted an open data policy;*

**April 22, 2014**

***Anoka County** adopted an open data policy;*



# Next...

**October 2014:**

***Scott and Washington Counties:*** *policy is under consideration*

**Rising interest in Greater Minnesota as well;**

***St. Louis, Lake & Cook Counties*** (Arrowhead Region)

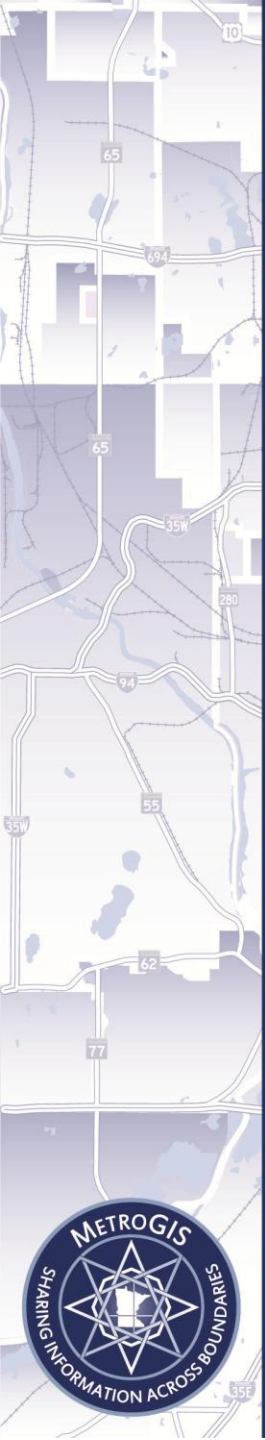
***Stearns County*** (St. Cloud)

**Minnesota GIS/LIS Conference** (Rochester, October 1-3)

***Panel discussion: county managers and GIS staff from all levels of government (well attended)***

***Clay County***

Has been making data available since 1999 (without a policy); GIS Manager Mark Sloan indicated that he is **interested in now pursuing a formal policy on free and open data based on the MetroGIS model**



# County Perspective

**Eliminated burden of administering licenses and fee transactions for marginal benefit**

**Eliminated the need to implement onerous security measures**

**County well positioned to leverage benefits of MN Geospatial Commons (MnGeo)**

- Each county pursuing data publishing individually

**Worked well as a collaborative initiative**

- MetroGIS Data Producer Workgroup
- 8 County Collaboration

**What's next?**

- Build awareness of data availability
- Promote use of the data



# Code-a-thon

## Open data event

- Technology developers
- Community members
- GIS professionals and enthusiasts

## Create technology solutions:

**“... improve county services, give residents greater access to government data and make a difference ...”**



**CODE** for  
**AMERICA**  
BRIGADE

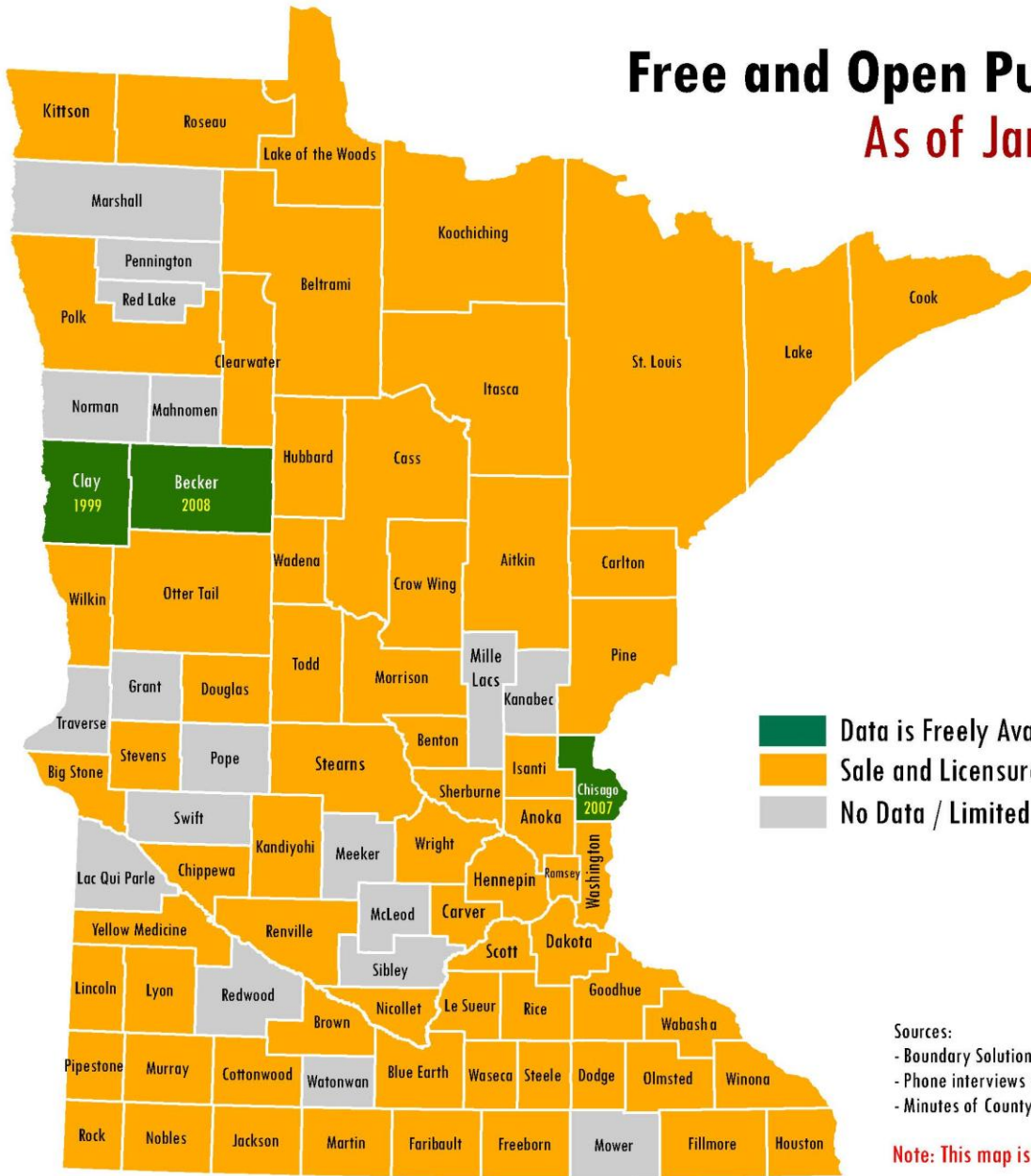


**E-Democracy.org**



# Free and Open Public Geospatial Data

## As of January 1, 2014



- Data is Freely Available: No Formal Policy Adopted
- Sale and Licensure of Data
- No Data / Limited Data Available

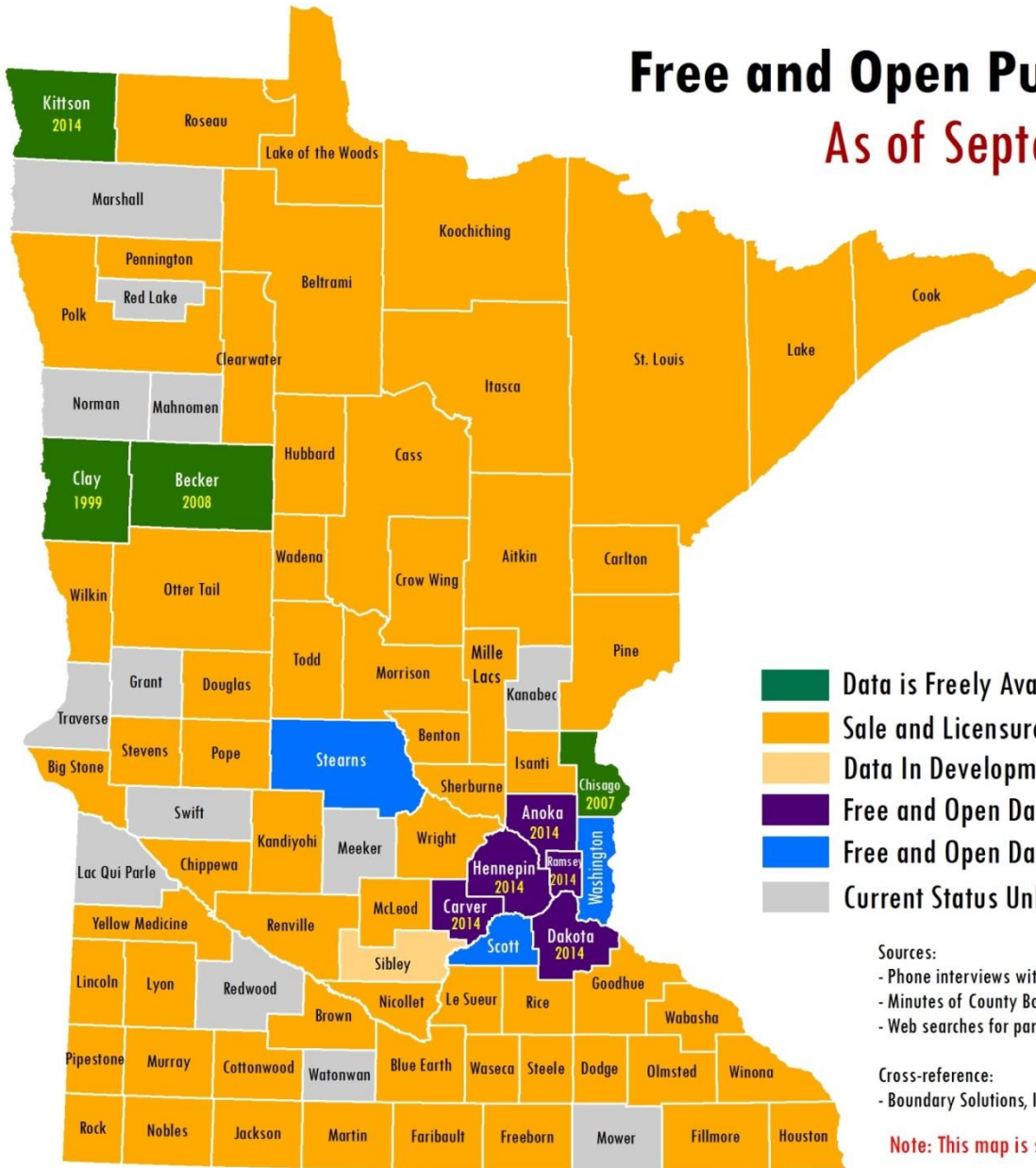
Sources:  
 - Boundary Solutions, Inc. (2014 data)  
 - Phone interviews with staff in counties in Minnesota (2014)  
 - Minutes of County Board Proceedings (2014)

Note: This map is subject to frequent updates



# Free and Open Public Geospatial Data

## As of September 22, 2014



- Data is Freely Available: No Formal Policy Adopted
- Sale and Licensure of Data
- Data In Development
- Free and Open Data Policy Adopted: Data Freely Available
- Free and Open Data Policy Under Consideration
- Current Status Unknown

Sources:

- Phone interviews with county staff (Jan-Sep 2014)
- Minutes of County Board Proceedings (Jan-Sep 2014)
- Web searches for parcel data and parcel data viewers (Jan-Sep 2014)

Cross-reference:

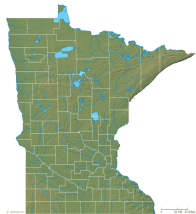
- Boundary Solutions, Inc. (2014 data)

**Note: This map is subject to frequent updates**



# Attention from outside the Metro

*MetroGIS research and advocacy for free and open public geospatial data have **garnered the attention of Greater Minnesota and other states;***



## **In Minnesota:**

*Several county GIS managers and staff have contacted us with questions on the **‘how to?’** of open data;*

**New York State GIO William Johnson**

*Making use of MetroGIS’ research;*

*Minnesota as an excellent case study for how to do this;*

**Co-presented on the issue at the  
NSGIC national conference  
9/16/2014 in Charleston, SC**





# National Trends



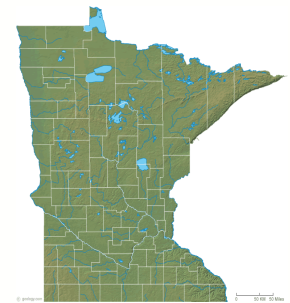
**Presence of Open Data Policy (2 points max)**  
**Quality of Open Data Policy (3 points max)**

**Presence of Open Data Portal (2 points max)**  
**Quality of Open Data Portal (1 point)**

A screenshot of the Center for Data Innovation website. The page title is "State Open Data Policies and Portals". It includes a search bar, navigation tabs for "About Us", "Publications", "Events", "Legislation Tracking", and "Resources". A map of the United States is shown with color-coded states. Below the map, there is a "Published on August 18th, 2014 | by Laura Drees and Daniel Castro" line. The "Summary" section begins with: "This report provides a snapshot of states' efforts to create open data policies and portals and ranks states on their progress. The six top-scoring states are Hawaii, Illinois, Maryland, New York, Oklahoma, and Utah. Each of these states has established an open data policy that requires basic government data, such as expenditure information, as well as other agency data, to be published on their open data portals in a machine-readable format. These portals contain extensive catalogs of open data, are relatively simple to navigate, and provide data in machine-readable formats as required. The next highest-ranked state, Connecticut, offers a similarly serviceable, machine-readable open data portal that provides wide varieties of information, but its policy does not require machine readability. Of the next three top-ranking states, Texas's and Rhode Island's policies require neither". On the right side of the page, there is a "Sign up for our weekly newsletter" form with an "Email Address" field and a "Subscribe" button. Below that are social media icons for Twitter (2,297 Followers), YouTube (48 Subscribers), and Facebook (366 Fans). There are also tabs for "Latest" and "Popular Posts" and a list of recent articles with dates and authors.

## Top States for Open Data:

- |               |                      |
|---------------|----------------------|
| Hawaii        | 1 <sup>st</sup> (8)  |
| Illinois      | 2 <sup>nd</sup> (8)  |
| Maryland      | 3 <sup>rd</sup> (8)  |
| New York      | 4 <sup>th</sup> (8)  |
| Oklahoma      | 5 <sup>th</sup> (8)  |
| Utah          | 6 <sup>th</sup> (8)  |
| Connecticut   | 7 <sup>th</sup> (7)  |
| Texas         | 8 <sup>th</sup> (6)  |
| Rhode Island  | 9 <sup>th</sup> (6)  |
| New Hampshire | 10 <sup>th</sup> (6) |



**Minnesota  
Ranked 22<sup>nd</sup>  
Score of (3)**



# Open Data in Minnesota



## Policy and technical aspects

**Support for our statewide data portal;**

**Funding for creating and maintaining data resources;**

**Economic potential of open data;**



# Open Data

Smoking



Seat Belts



Access to Information



The generation now entering the workforce grew up with the Internet, and expect *immediate and unfettered access to data*;

Businesses may do some **online “prospecting”** and decide that your city, county or state is **not “open for business”**, and you may never even know about it!





**Northstar**MLS

For your Information. For your Success.

# Who is the MLS?

- \* 22 employees

# Who is the MLS?

- \* 22 employees
- \* Serving:

# Who is the MLS?

- \* 22 employees
- \* Serving:
  - \* 16130 Real Estate Agents

# Who is the MLS?

- \* 22 employees
- \* Serving:
  - \* 16130 Real Estate Agents
  - \* 2870 Real Estate Offices



# Who is the MLS?

- \* 22 employees
- \* Serving:
  - \* 16130 Real Estate Agents
  - \* 2870 Real Estate Offices
  - \* 48,000+ Active Listings

# Who is the MLS?

- \* 22 employees
- \* Serving:
  - \* 16130 Real Estate Agents
  - \* 2870 Real Estate Offices
  - \* 48,000+ Active Listings
  - \* Average of 260 new listings per day

# Who is the MLS?

- \* Owned by MAAR & SPAAR & Serving SCAAR, WWAR & GLAAR
- \* Not for profit but exists to serve subscribers



# The MLS is DATA

- \* Provide property listing services and related data primarily to support the Real Estate industry.
- \* Subscription based service
- \* Two main types of data:
  - \* Currently listed properties available for sale.
    - \* Matrix / AddEdit
  - \* Base tax & characteristics data for all properties in MN and WI.
    - \* Realist

# The MLS is DATA

- \* Provides data feeds to participating brokerage firms.

**Edina Realty**  
a Berkshire Hathaway affiliate

Contact Us  
952-928-5663 | Email | Chat

Search Sell Mortgage Agents & Offices News & Advice Our Services Careers About Mobile Sign In

Home > Search Results

Map City School District Radius

By searching you agree to the End User License Agreement.

Hide Criteria Recommend (7.6k)

LOCATION

YOUR SELECTIONS Status: Active Resident: Single Family Residential

Enter City, State, Zip

REFINE SEARCH

Status

- Active
- Active Contingent
- Pending Sales
- Sold

Price Range

Beds Any Baths Any

Square Feet

Type Residential

- Single Family
- Condo

Other Features

- Open Houses
- New in the last 7 days
- Waterfront Property
- In Foreclosure

87 of 87 properties displayed

Map View List View Photo View Sort By: Price Hi to Lo

Map showing properties in St. Anthony, MN. A detailed view of a property is shown:

3113 Edward Street NE  
St. Anthony, MN 55418  
Price: \$214,900  
Beds: 3 | Baths: 1 Full/1 Three-Qtr  
SqFt: 1,482  
Status: Active  
Type: Single Family  
View Details

Street Address	City	Zip	Price
2801 Saint Anthony Boulevard	St. Anthony	55418	\$594,900

Courtesy: EXIT Realty Metro

**COLDWELL BANKER** Coldwell Banker Mortgage 888.308.6558

FIND A HOME LEARN VIDEO JOIN US FAVORITES

Real Estate

HOMES FOR SALE HOMES FOR RENT AGENTS/TEAMS OFFICES

COUNTRY USA LOCATION 55126 RADIUS 0 Mi PRICE Any TO Any BEDS Any BATHS Any

FILTER BY KEYWORD E.G. Pool Parties, Big Yard SEARCH

ADVANCED OPTIONS

1 2 3 12 next

1-10 of 115 Homes for Sale in 55126 AFFORDABILITY METER ON OFF

View 10 Results Per Page Sort Results by Price High - Low USD Save this search

1 **\$1,750,000**  
Est Mo/Payment: **\$8,969 USD** - Can I afford this?  
4 Bed, 2 Full Bath, 3 Partial Bath  
3270 Owasso Heights Road Shoreview, MN 55126  
Courtesy of Edina Realty, Inc.  
View Details 12 Images + Share Contact

2 **\$969,000**  
Est Mo/Payment: **\$4,922 USD** - Can I afford this?  
3 Bed, 3 Full Bath, 1 Partial Bath  
692 Sunset Court Shoreview, MN 55126  
Listed by Coldwell Banker Burnet  
Watch Video  
View Details 18 Images + Share Contact

Map showing properties in Shoreview, MN. A detailed view of a property is shown:

692 Sunset Court  
Shoreview, MN 55126  
Price: \$969,000  
Beds: 3 | Baths: 3 Full/1 Partial  
SqFt: 2,400  
Status: Active  
Type: Single Family  
View Details

# The MLS is DATA

- \* Stream data to Mobile Apps too!



# Subscribers

- \* Real Estate Agents
- \* Brokerage Firms
- \* Property Appraisers
- \* Attorneys
- \* Business Research
- \* Media Outlets



**Star Tribune**

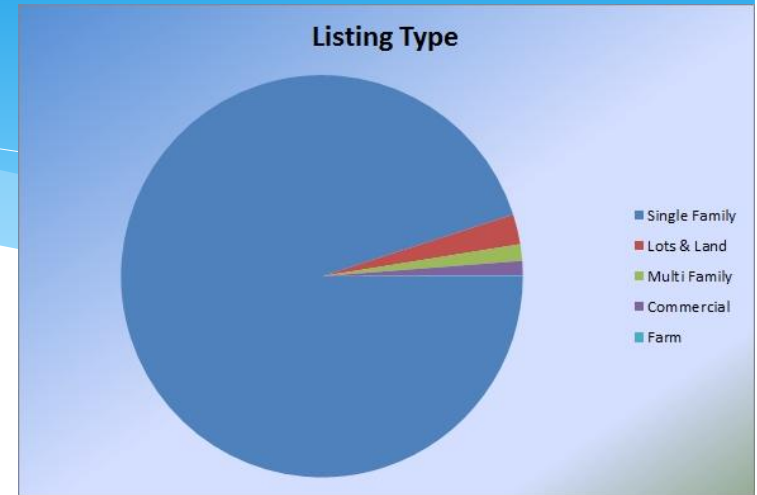


**PIONEER PRESS**  
**TwinCities.com**



# 2013

Residential Listings make up 95% of all listings in our database.



	<b>Sales Total</b>		
Single Family	\$14,027,748,001.14	\$14.0B	95%
Lots & Land	\$355,860,471.16	\$356M	2%
Multi Family	\$196,285,349.50	\$196M	1%
Commercial	\$166,237,513.43	\$166M	1%
Farm	\$13,894,610.00	\$13M	0%
	\$14,760,025,945.23	\$14.7B	

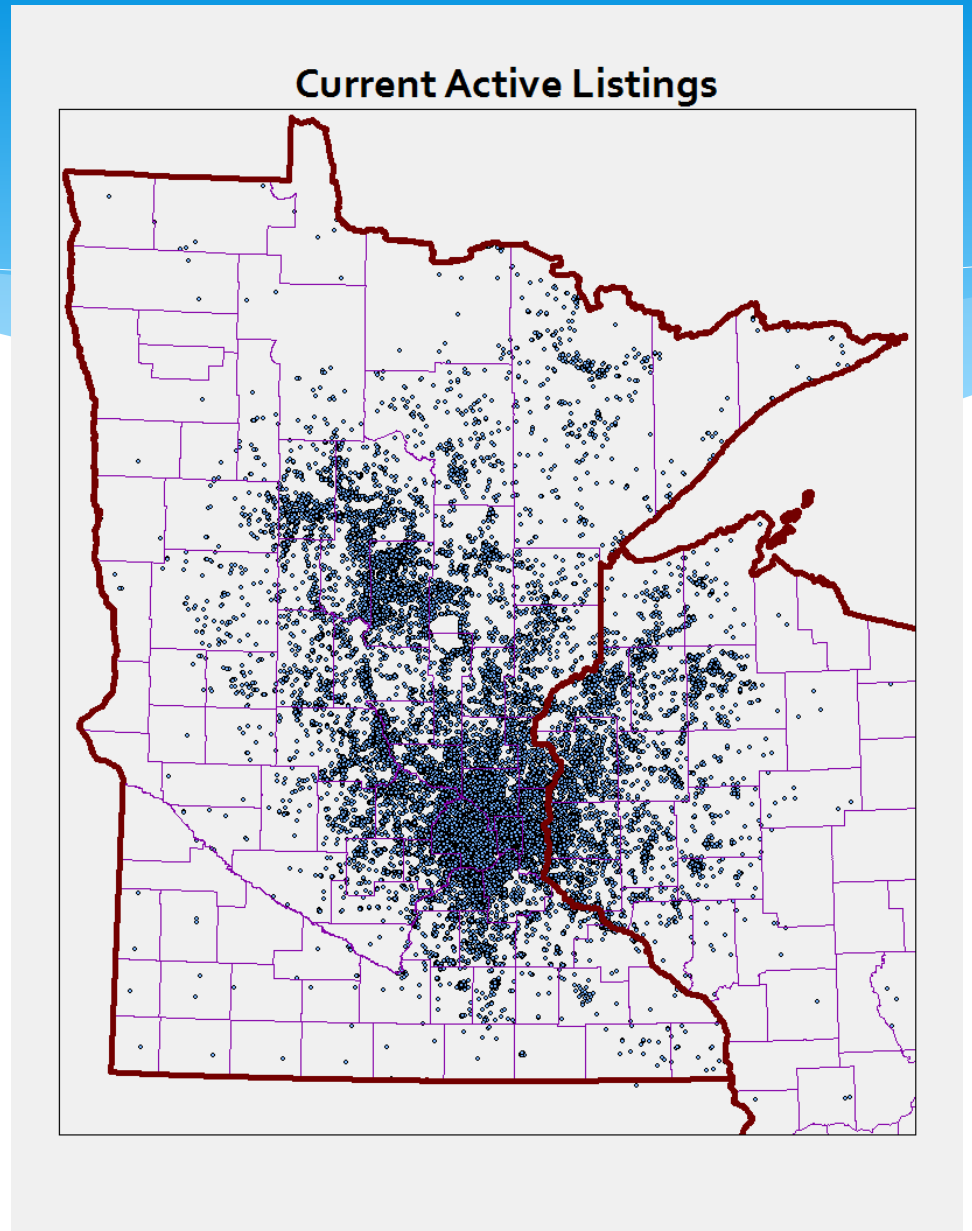


# Data Volume

- \* 16000+ data entry people adding data to the same database.
- \* **RULES ARE IMPORTANT!**
- \* 90GB of Sales Listings tabular data
- \* 850GB of listing photos and forms
- \* Archived property sales data back to 1989

# Today

\* 48946 Active listings



# Create & manage new sales listings

## Add/Edit

Signed in as **curt** | Training | Teams | Help | Matrix | Home | Log Out

**NorthstarMLS**  
For your Information. For your Success.

**Listing Data Add/Edit**

**NEW SINGLE FAMILY LISTING** [Remove Incomplete](#)

Home

**Single Family**

Multi-Family  
(2 to 4 units)

Lots & Land

Commercial  
(5 or more units)

Residential Rentals

Farm

To Save this Listing, please complete all required fields. At the bottom of the screen click the "Save as Active" link.

If you are unable to complete the listing at this time, please click the "Save as Incomplete" link and complete your listing within 7 days. All incomplete listings are removed 7 days after initial entry date, regardless of any later edits.

For your convenience, the Auto-Save feature saves information every 5 minutes.

To Add a Withheld, enter the required fields for Withhelds (address, PID number, List Date, Expiration Date) and click the "Save as Withheld" link. All Withhelds are automatically removed at midnight on the Expiration Date.

Jump To Group:

[Save as Withheld](#) [Save as Incomplete](#)

Status:  Contingency:

**LOCATION** [Save as Withheld](#) [Save as Incomplete](#)

<input type="text" value="State: Minnesota"/>	<input type="text" value="County: Hennepin"/>
<input type="text" value="Municipality: Edina"/>	<input type="text" value="Neighborhood:"/>
<input type="text" value="Zip: 55439"/>	<input type="text" value="Plus4:"/>
<input type="text" value="Postal City: Edina"/>	<input type="text" value="House Number: 6712"/>
<input type="text" value="Street Direction Prefix:"/>	<input type="text" value="Street Name: West"/>
<input type="text" value="Street Suffix: Trail"/>	<input type="text" value="Street Direction Suffix:"/>
<input type="text" value="Unit Number:"/>	<input type="text" value="Fire Number:"/>
<input type="text" value="School District Number: 273"/>	<input type="text" value="School District: 273 - Edina"/>
<input type="text" value="School District Name: Edina"/>	<input type="text" value="Map Name:"/>

# Search Sales Listings

# Matrix

**NorthstarMLS**  
For your Information. For your Success.

Home Search **My Matrix** Finance Roster Realist Tax Stats Add/Edit WIREX Help Hello, Curtis · Logout

Recent Searches

Criteria Map Results

General

**Status**

- Active
- Temp Not Avail For Showing
- Pending
- Sold
- Comp Sold
- Cancelled
- Expired

Or  Not

**Contingent Offer Accepted**

- Application Received
- Subject to Statutory Rescission
- None
- Inspection
- Sale of Another Property
- Third Party Approval
- Other
- With Bump Clause - WI Only
- Without Bump Clause - WI Or

Or  Not

**Map Search:** No Map Selected

Within 0.25 miles of MLS #  [My Location](#)

**Municipality (city or township)**

Or  Not

**Postal City (mailing address)**

Or  Not

**School District**

Or  Not

**County**

Or  Not

**Neighborhood (Mpls/St. Paul)**

Or  Not

**Zip Code**

**House Number**

**Street Name**

**List Price (\$1,000's)**

**Sold Price (\$1,000's)**

**MLS ID**

Or  Not

**Style**

- (SF) One 1/2 Stories
- (SF) Two Stories
- (SF) More Than Two Stories
- (SF) Modified Two Story
- (SF) Three Level Split
- (SF) Split Entry (Bi-Level)
- (SF) Four or More Level Split
- (SF) Other

Or  Not

**Lake/Waterfront Name**

**Bedrooms**

**Total Baths**

**Garage Stalls**

**Year Built**

**Total FinSqFt**

**Abov FinSqFt**

**List Date**

**Off Market Date**

**Closed Date**

**Expiration Date**

**Agent Remarks**

**Public Remarks**

**Acres**

Distressed Only

Exclude Distressed

Clear 2 matches Map Results

# Search Sales Listings

# Matrix

The screenshot shows the NorthstarMLS website interface. At the top, the navigation bar includes "Home", "Search", "My Matrix", "Finance", "Roster", "Realist Tax", "Stats", "Add/Edit", "WIREX", and "Help". The user is logged in as "Hello, Curtis" and can click "Logout". The search criteria are set to "A 55126 SV Ramsey County 0621 SF" with a checkbox for "other criteria".

The main map area displays a search for "Sales Listings" in Ramsey County, MN. The map shows a large blue circle representing the search radius, centered on a red dot. Numerous green house icons are scattered across the map, indicating the locations of the search results. The map includes labels for various roads, lakes, and neighborhoods such as Lexington, Blaine, Arden Hills, Shoreview, North Oaks, and Vadnais Heights. Major highways like I-35, I-94, and I-55 are also visible.

At the bottom of the map, there are several utility buttons: "Actions", "Refine", "Save", and "Carts". Below the map, there is a toolbar with icons for "Criteria", "Email", "Print", "CMA", "Directions", "Stats", "Export", "Book a Showing", and "Cloud CMA".

# Search Sales Listings

# Matrix

NorthstarMLS  
For your information. For your success. Home Search My Matrix Finance Roster Realist Tax Stats Add/Edit WIREX Help Hello, Curtis · Logout

Recent Searches

Criteria Map Results

Previous · Next · 1-18 of 18 Checked 0 All · None · Page Display Single Line Grid at 100 per page

	List #	S	Street Address	Municipality	Price	DOM Style	Bds	Bth	TFSF	FSZ	Built	NH
1	4497936	A,t	1102 Gould Avenue NE	Columbia Heights	\$69,900	106 ONEHF	3	2	1360	600	1924	
2	4523131	A	1215 45th Avenue NE	Columbia Heights	\$108,888	39 ONEHF	3	2	1956	956	1915	
3	4503336	A	3828 2nd Street NE	Columbia Heights	\$120,000	92 ONEHF	4	2	1934	742	1930	
4	4497305	A	4348 4th Street NE	Columbia Heights	\$135,000	106 ONEST	3	2	1040	1040	1962	
5	4518639	A,i	3732 Buchanan Street NE	Columbia Heights	\$135,000	51 ONEHF	4	2	1296	780	1947	
6	4519041	A	4319 7th Street NE	Columbia Heights	\$139,900	51 FOURM	4	2	1861	1002	1959	
7	4519089	A	3941 Reservoir Boulevard	Columbia Heights	\$144,900	51 ONEST	3	2	1408	1008	1958	
8	4520668	A	4842 7th Street NE	Columbia Heights	\$145,000	45 ONEST	3	2	1385	1060	1958	
9	4530807	A	4741 University Avenue NE	Columbia Heights	\$149,900	16 ONEHF	3	2	1241	832	1939	
10	4528619	A	4324 Quincy Street NE	Columbia Heights	\$154,900	23 ONEST	3	2	1408	873	1953	
11	4472765	A	4900 Tyler Street NE	Columbia Heights	\$155,000	164 ONEST	3	2	2145	1470	1959	
12	4517569	A	3830 Reservoir Boulevard	Columbia Heights	\$158,000	55 ONEHF	4	3	1739	1089	1924	
13	4490627	A	4714 Heights Drive	Columbia Heights	\$159,900	122 ONEHF	3	2	1632	972	1950	
14	4502912	A,i	3709 Polk Street NE	Columbia Heights	\$164,900	93 ONEHF	4	2	1487	927	1921	
15	4533073	A	4133 Reservoir Boulevard	Columbia Heights	\$164,900	8 SPEBI	3	2	1876	1008	1964	
16	4520516	A	4117 Jefferson Street NE	Columbia Heights	\$169,000	45 ONEST	4	2	1616	808	1965	
17	4520786	A	4450 Buchanan Street NE	Columbia Heights	\$169,000	42 ONEST	3	2	1540	1540	2001	
18	4502576	A	4449 Van Buren Street NE	Columbia Heights	\$169,900	93 ONEST	3	2	1620	920	1954	

Actions Refine Save Carts Top Bottom [1] Previous Next

Criteria Email Print CMA Directions Stats Expert Book a Showing Cloud CMA

Status is 'Active'  
 Latitude, Longitude is around 45.05, -93.25  
 Municipality is 'COLH - Columbia Heights'  
 Postal City is one of 'MPLS - Minneapolis', 'COLH - Columbia Heights'  
 School District is '0013 - Columbia Heights'  
 County is 'ANOK - Anoka'  
 Style is in this list (click to view)  
 Construction Status is 'Previously Owned'  
 Bedrooms is 2+  
 Bath - Total is 2+  
 Garage Stalls is 2+  
 List Price is 175000 or less  
 For Sale or For Rent is 'For Sale'  
 Ordered by Status, Municipality, List Price  
 Found 18 results in 0.06 seconds.

# Property info search

# Realist

**NorthstarMLS** Search Preferences Help Welcome Curtis Logout

Ramsey, MN  
Recording Date: 10/09/2014

Quick Search My Search

Geo Search

Municipality is  
Select From List

City is  
Arden Hills

ZIP Code is

PID starts with

School Distric... starts with

House # is  
1194

Street Name starts with  
edgewater

Pre-Direction is

Street Suffix is

Post Direction is

Unit # is

Subdivision is

SEARCH Edit Attributes

1194 Edgewater Ave, Arden Hills, MN 55112  
Tax Id: 34-30-23-44-0082  
Owner: G Robert Boeck/Cathleen Boeck

3 MLS Beds 3 MLS Baths  
\$279,000 MLS Sale Price 11/01/1997 MLS Sale Date

Print Grid/Map Email Grid/Map Save Map Change View: Map | Grid | Split

1 result, 1 selected

	County	Address	Municipality	Owner Name	Lot Acres	PID#	Taxable Mk	CREV Sale C	CREV Sale F	Beds	Total Baths	Fit
✓ 1	Ramsey	1194 Edgewater Ave	ARDEN HILLS	Boeck G Robert/Boeck Cathleen M	0.3641	343023440082	\$520,200			3	Tax: 4 MLS: 3	Ta

View Reports Print/Email Property Detail Create Labels Export Edit Grid

# How we use GIS Data

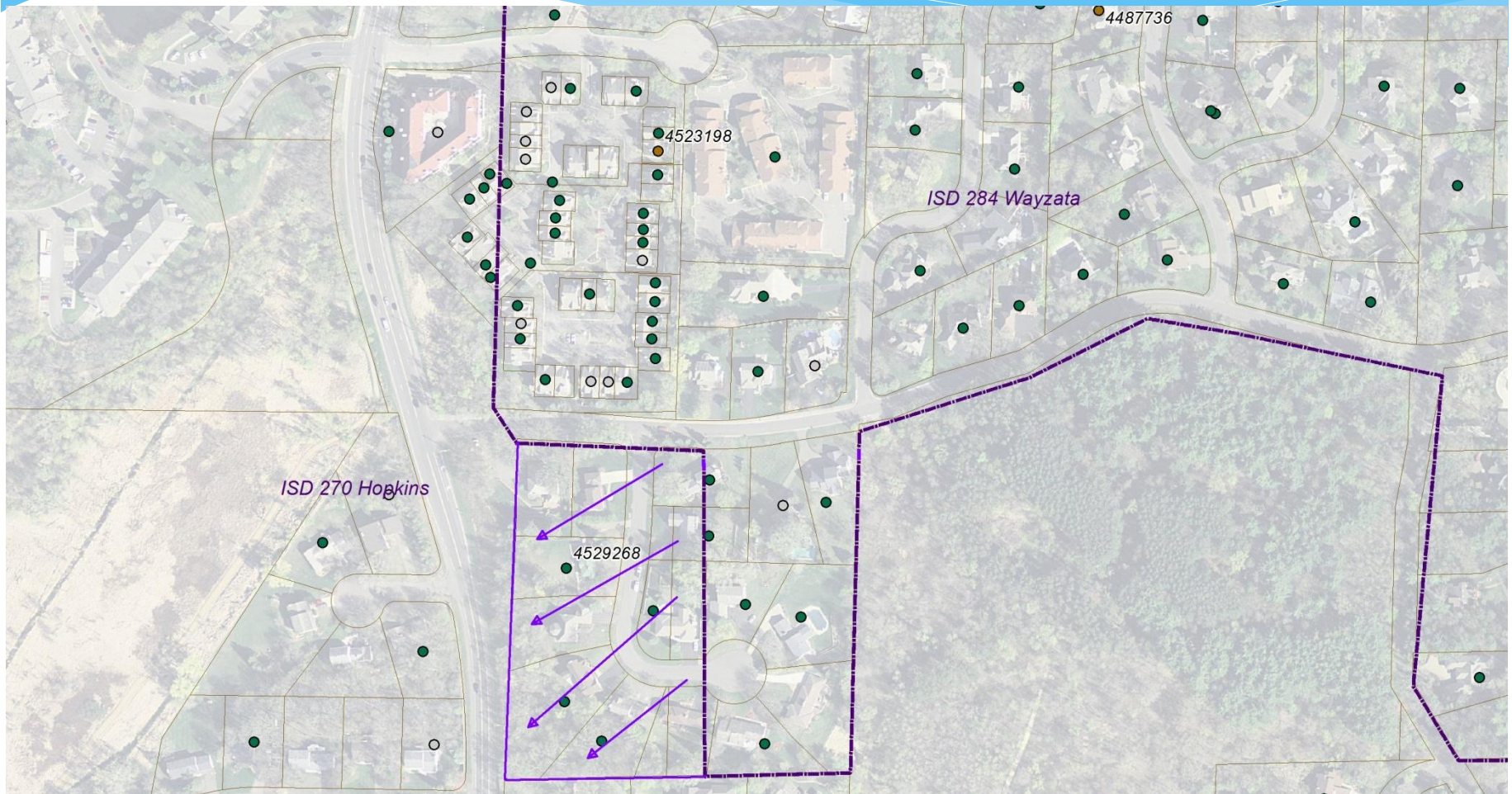
- \* Validate listings for accuracy
- \* Improve accuracy where possible:
  - \* Location Data
    - \* Section / Township / Range / Quarter
    - \* Latitude / Longitude coordinate
    - \* Municipality
  - \* Property Characteristics
    - \* # Bedrooms
    - \* # Bathrooms
    - \* Square Footage



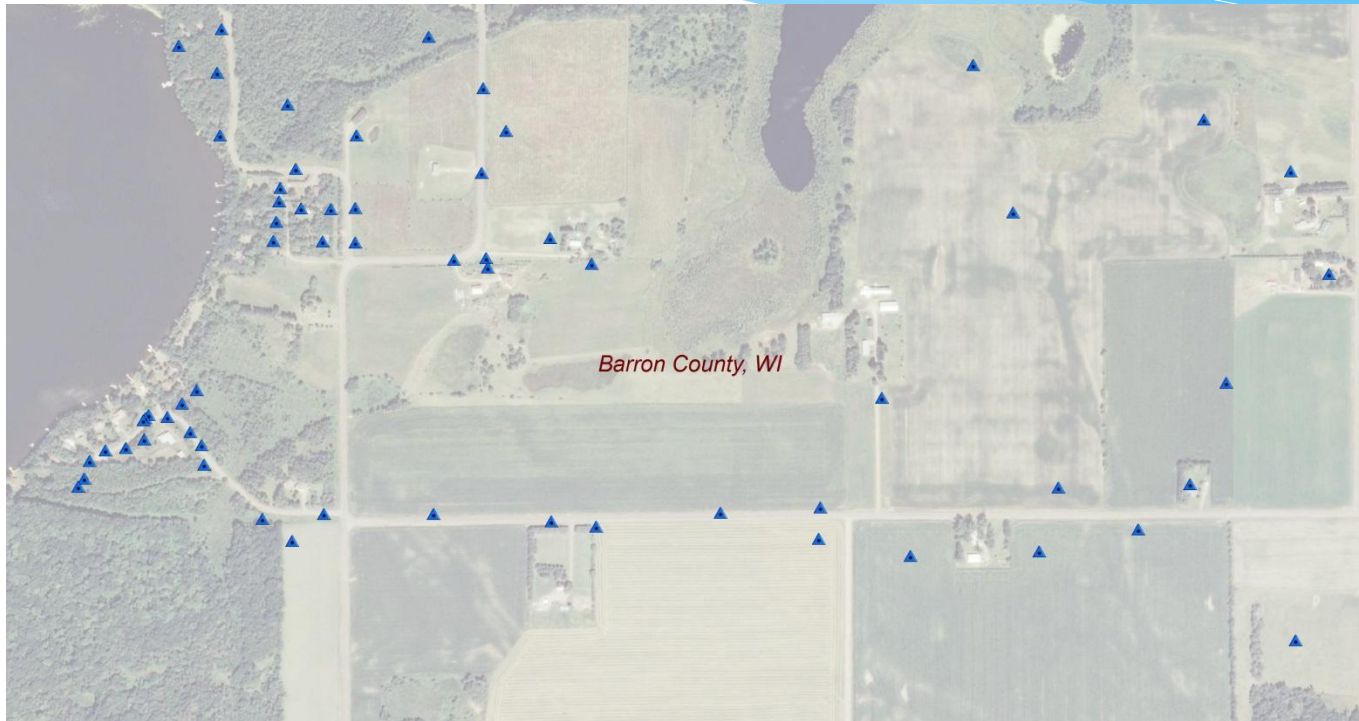
# How we use GIS Data

- \* Pre-populate new listings with as much data as possible.
- \* Statistical analysis
- \* Development of new datasets or characteristics data

# How we use GIS Data



# How we use GIS Data

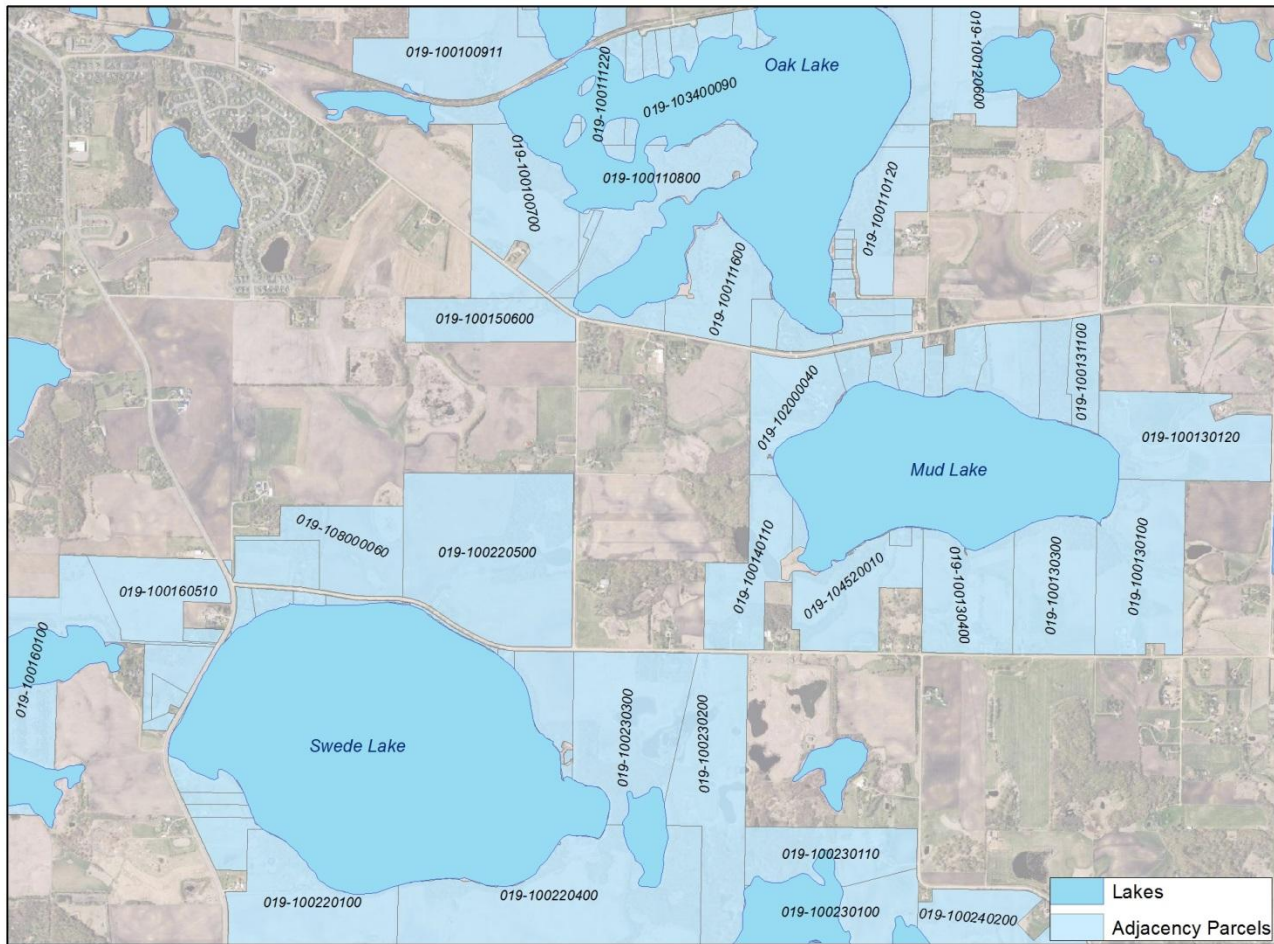


# How we use GIS Data



# How we use GIS Data

Carver County Waterfront Parcels on Named Lakes



# How we use GIS Data

PIN	OWNER_NAME	HOMESTEAD	EMV_LAND	EMV_BLDG	EMV_TOTAL	TAX_EXEMPT	XUSE1_DESC	DWELL_TYPE	HOME_STYLE	FIN_SQ_FT	GARAGE	GARAGESQFT	BASEMENT	HEAT
123-013022120007	Ley, Joseph H	Y	78400	105300	183700	N		SINGLE FAMILY DWELLING	Split/level	1662	Y	528.0	Y	HOT All
123-013022220001	Ramsey County Parks And Rec	N	200400	0	200400	Y	Co Svc Other			0		None		
123-013022120008	Hurst, Kevin P	Y	74200	102900	177100	N		SINGLE FAMILY DWELLING	Split/level	1725	Y	850.0	Y	
123-013022120009	Peterson, Gregory J	Y	77900	120400	198300	N		SINGLE FAMILY DWELLING	Split/entry	1740	Y	616.0	Y	HOT All
123-013022120011	Smith, Shawn R	Y	84000	87000	171000	N		SINGLE FAMILY DWELLING	Split/level	1256	Y	506.0	Y	
123-01302210022	Tas Properties Llc	N	208600	541400	750000	N				0		None		
123-013022220014	Por-mkr Real Estate Llc	N	250200	0	250200	N				0		None		
123-013022220004	Southwind Holdings Llc	N	594600	580800	1175400	N				0		None		
123-013022120033	Trudeau, Robert L	Y	76400	170900	247300	N		SINGLE FAMILY DWELLING	Two Story	2254	Y	768.0	Y	
123-01302210019	Bruggeman, James	N	210000	638300	848300	N				0		None		
123-013022120053	Larson, Yvonne C	Y	87700	132400	220100	N		SINGLE FAMILY DWELLING	Split/level	1816	Y	680.0	Y	HOT All
123-01302210023	Capra Properties Llc	N	208700	340100	548800	N				0		None		
123-013022120051	Thibault, William R	Y	87000	193300	280300	N		SINGLE FAMILY DWELLING	Split/level	2604	Y	826.0	Y	HOT All
123-013022120030	Johnson, Dennis M	Y	81700	108200	189900	N		SINGLE FAMILY DWELLING	Split/level	1961	Y	506.0	Y	
123-013022120065	Brown, Patrick M	Y	78300	169100	247400	N		SINGLE FAMILY DWELLING	Two Story	1974	Y	832.0	Y	HOT All
123-013022120024	Manaige, Michael F	Y	76100	57700	133800	N		SINGLE FAMILY DWELLING	Split/level	1059	Y	506.0	Y	
123-01302210014	Marshall, Craig J	N	224400	135600	360000	N				0		None		
123-013022120068	Clark, Larry C	Y	88700	189700	278400	N		SINGLE FAMILY DWELLING	Two Story	2568	Y	616.0	Y	HOT All
123-01302210013	Ford J Nicholson Draft Co	N	121900	0	121900	N				0		None		
123-013022120076	Harringer, Joseph T	Y	77800	163200	241000	N		SINGLE FAMILY DWELLING	Two Story	2007	Y	726.0	Y	HOT All
123-013022120080	Moerke, Doug	Y	79200	223800	303000	N		SINGLE FAMILY DWELLING	Two Story	3578	Y	702.0	Y	HOT All
123-013022120085	Wagner, Augustus J	Y	77600	171400	249000	N		SINGLE FAMILY DWELLING	Two Story	2125	Y	800.0	Y	HOT All
123-013022120073	Johnson, Thor R	Y	79500	166200	245700	N		SINGLE FAMILY DWELLING	Two Story	2080	Y	620.0	Y	HOT All
123-013022120081	Crockett, Carol J	Y	77100	172700	249800	N		SINGLE FAMILY DWELLING	Two Story	2166	Y	638.0	Y	HOT All
123-013022130044	Town Of White Bear	N	43600	0	43600	Y	Muni Svc Other			0		None		
123-013022130024	Peterson, Gregory T	Y	76100	200000	276100	N		SINGLE FAMILY DWELLING	Two Story	2890	Y	680.0	Y	HOT All
123-013022130027	Kapisak, Craig E	Y	82600	192200	274800	N		SINGLE FAMILY DWELLING	Two Story	2338	Y	680.0	Y	HOT All
123-013022130013	Kielbasa, Daniel M	Y	99500	191400	290900	N		SINGLE FAMILY DWELLING	Two Story	2572	Y	872.0	Y	HOT All
123-013022130019	Gniz, John R	Y	88600	172200	260800	N		SINGLE FAMILY DWELLING	Two Story	2146	Y	940.0	Y	HOT All
123-013022130045	Town Of White Bear	N	35500	0	35500	Y	Muni Svc Other			0		None		
123-01302210017	Town Of White Bear	N	276900	0	276900	Y	Muni Svc Other			0		None		
123-013022220017	Nicholson, Ford J	N	148400	0	148400	N				0		None		
123-013022120057	Beavens, Douglas C	Y	97300	122500	219800	N		SINGLE FAMILY DWELLING	Split/level	1876	Y	724.0	Y	
123-013022120059	Lerol, Gregory S	Y	82700	144200	226900	N		SINGLE FAMILY DWELLING	One Story	1501	Y	800.0	Y	HOT All
123-013022120037	Thusty, Jason P	Y	76400	128000	204400	N		SINGLE FAMILY DWELLING	Two Story	2000	Y	480.0	Y	
123-013022120038	Larson, Thomas J	Y	76400	144400	220800	N		SINGLE FAMILY DWELLING	Split/level	1512	Y	None	Y	
123-013022120061	Agre, David	Y	77800	210900	288700	N		SINGLE FAMILY DWELLING	Two Story	2826	Y	684.0	Y	HOT All
123-013022120020	Cunnie, Lynn M	Y	76400	136700	213100	N		SINGLE FAMILY DWELLING	Two Story	1822	Y	528.0	Y	
123-013022120034	Callahan, Scott B	Y	76400	129700	206100	N		SINGLE FAMILY DWELLING	Two Story	1992	Y	520.0	Y	
123-013022120054	Brown, Michael R	Y	87700	136300	224000	N		SINGLE FAMILY DWELLING	Split/level	1664	Y	680.0	Y	HOT All
123-013022120032	Momson, Lee R	Y	76400	152600	229000	N		SINGLE FAMILY DWELLING	Two Story	1807	Y	528.0	Y	
123-013022120052	Henningsen, Eric S	Y	87700	154800	242500	N		SINGLE FAMILY DWELLING	Two Story	2808	Y	860.0	Y	HOT All
123-013022120042	Marietta, Bruce	Y	76400	135200	211600	N		SINGLE FAMILY DWELLING	Two Story	2175	Y	466.0	Y	
123-013022120064	Tauer, Steven J	Y	80700	176700	257400	N		SINGLE FAMILY DWELLING	Two Story	1984	Y	768.0	Y	HOT All
123-013022120023	Vowels, David M	Y	79200	148000	227200	N		SINGLE FAMILY DWELLING	Two Story	2118	Y	704.0	Y	



# Benefits from freely shared data

- \* Reduced Costs (annual savings already of \$3650)
- \* Increased data accuracy
- \* More current data
- \* Better quality data in a larger territory
- \* Greater efficiency for agents = time savings
- \* Benefit to agent subscribers =



# Benefits from freely shared data

- \* Reduced Costs (annual savings already of \$3650)
- \* Increased data accuracy
- \* More current data
- \* Better quality data in a larger territory
- \* Greater efficiency for agents = time savings
- \* Benefit to agent subscribers =

**Benefit to the public!**



Thank you!

Curtis L. Carlson | GIS Coordinator  
**NorthstarMLS®**

[ccarlson@northstarmls.com](mailto:ccarlson@northstarmls.com)

651-251-3212 | 651-251-3254

2550 University Avenue W., Suite 259S Saint Paul, MN 55114

[44° 57' 53.92" N 93° 12' 13.79" W](#)

[www.northstarmls.com](http://www.northstarmls.com)

*For your Information. For your Success.*

MetroGIS Policy Board  
Thursday, October 23, 2014



## Agenda Item 5b:

# Changes to the Regional Parcel Dataset Legal Agreement between the Seven Metropolitan Counties and the Metropolitan Council

### **Randy Knippel**

GIS Manager, Dakota County  
Chair, MetroGIS Data Producers Work Group

### **Mark Kotz**

GIS Manager, Metropolitan Council,  
Chair, MetroGIS Addressing Work Group

### **Geoff Maas**

MetroGIS Coordinator

**October 23, 2014**





# Background:

Legal agreement executed between the **Seven Metropolitan Counties** and the **Metropolitan Council**

## The Counties provide:

- > *Parcel data in MetroGIS Standard;*
- > *Updated metadata for the parcels;*
- > *Access to historic parcel data;*

## The Metropolitan Council provides:

- > *Distribution of the data through DataFinder;*
- > *Administration of license agreements;*
- > *\$4000/year to each county from MetroGIS' budget;*

**Current Parcel Data License Agreement effective on 1/1/12;  
Has been extended to 1/1/16**





## With the onset of Free and Open Data...

*...the legal agreement no longer 'carries the weight' or serves its original intended purpose.*

**County** and **MetCouncil** staff support the transition toward a **Memorandum of Agreement** which:

Highlights the value of continued collaboration between partners;

Does not focus on parcel data exclusively;

Still enables a portion of MetroGIS budget to be directed to the county GIS departments to build applications and translation engines to get data into regional (and state) formats and standards;



# What's Next?

## Winter 2014-2015:

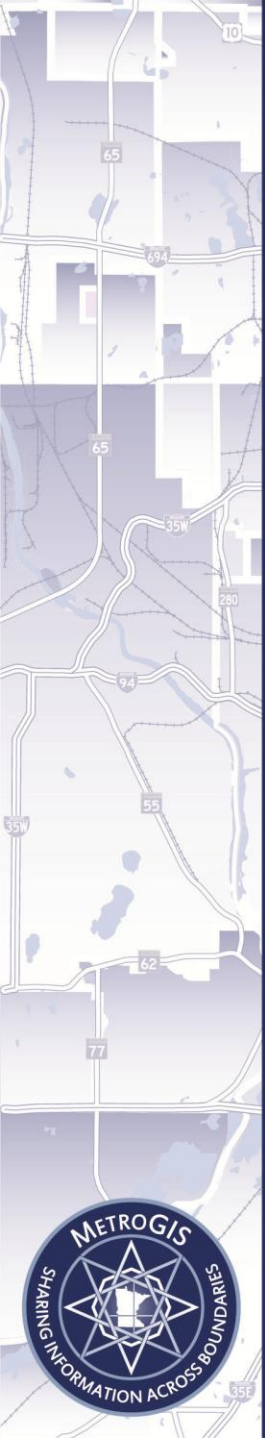
Counties/Council to jointly develop draft MOA language and agree on terms;

## April 30, 2015:

Present draft MOA language to the **MetroGIS Policy Board** for review, comment and approval;

## December 2015:

“Sunset” of the old legal agreement;



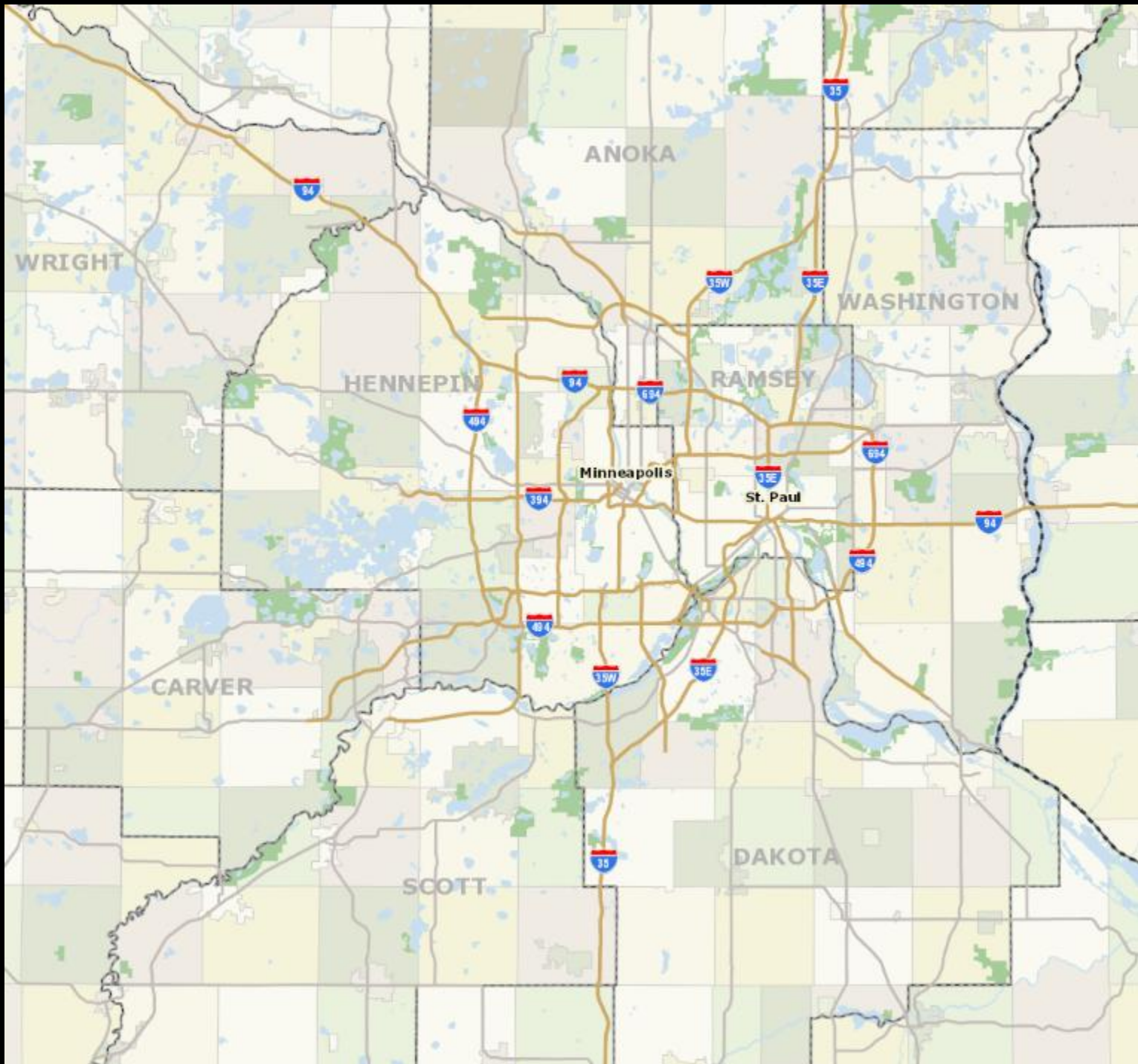
Agenda Item 5c:  
**U.S. National Grid  
Emergency Response  
Signage in  
Regional Parks and Trails**



**Randy Knippel**  
GIS Manager, Dakota County  
Chair, MetroGIS Data Producers Work Group

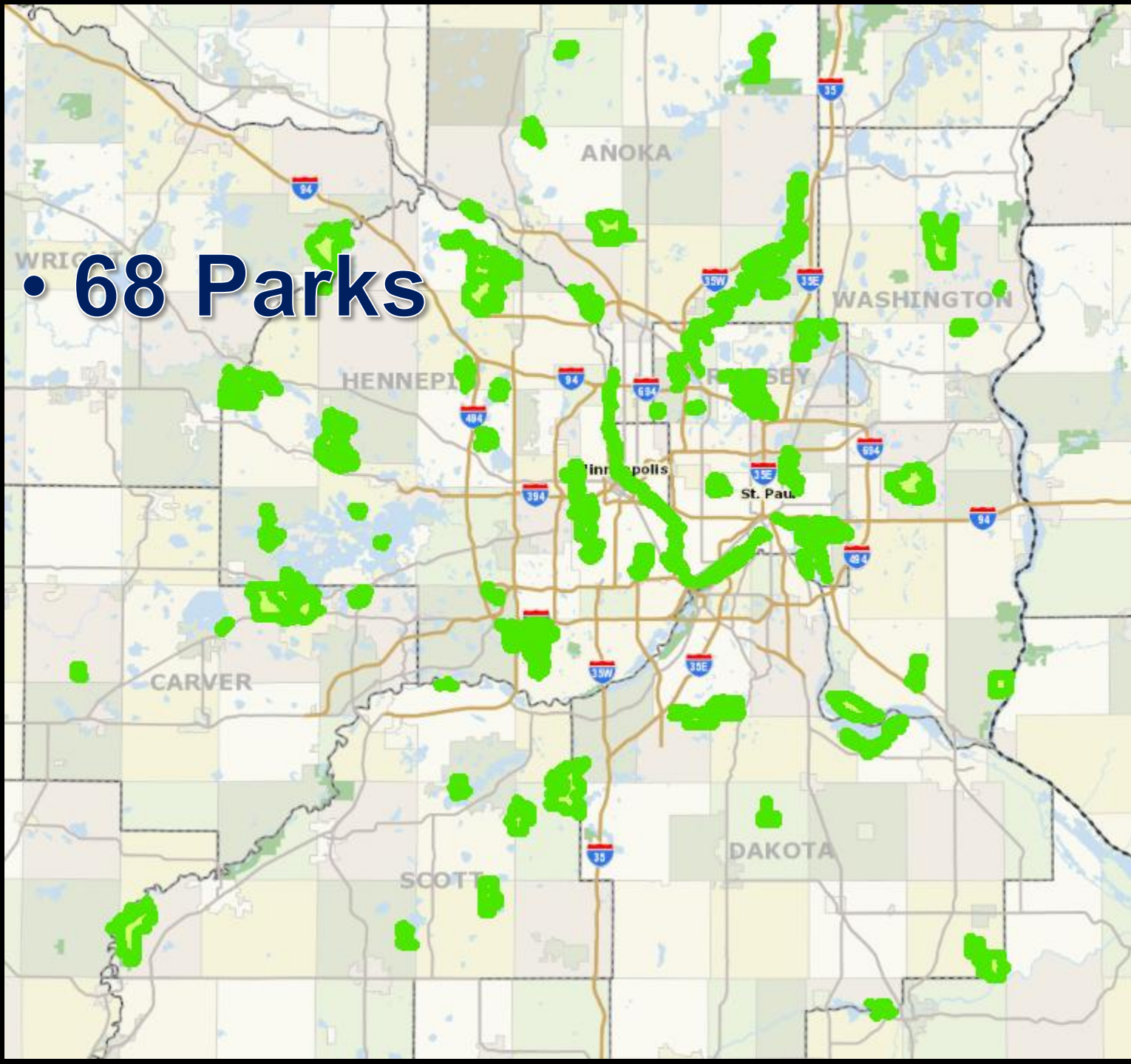
**October 23, 2014**



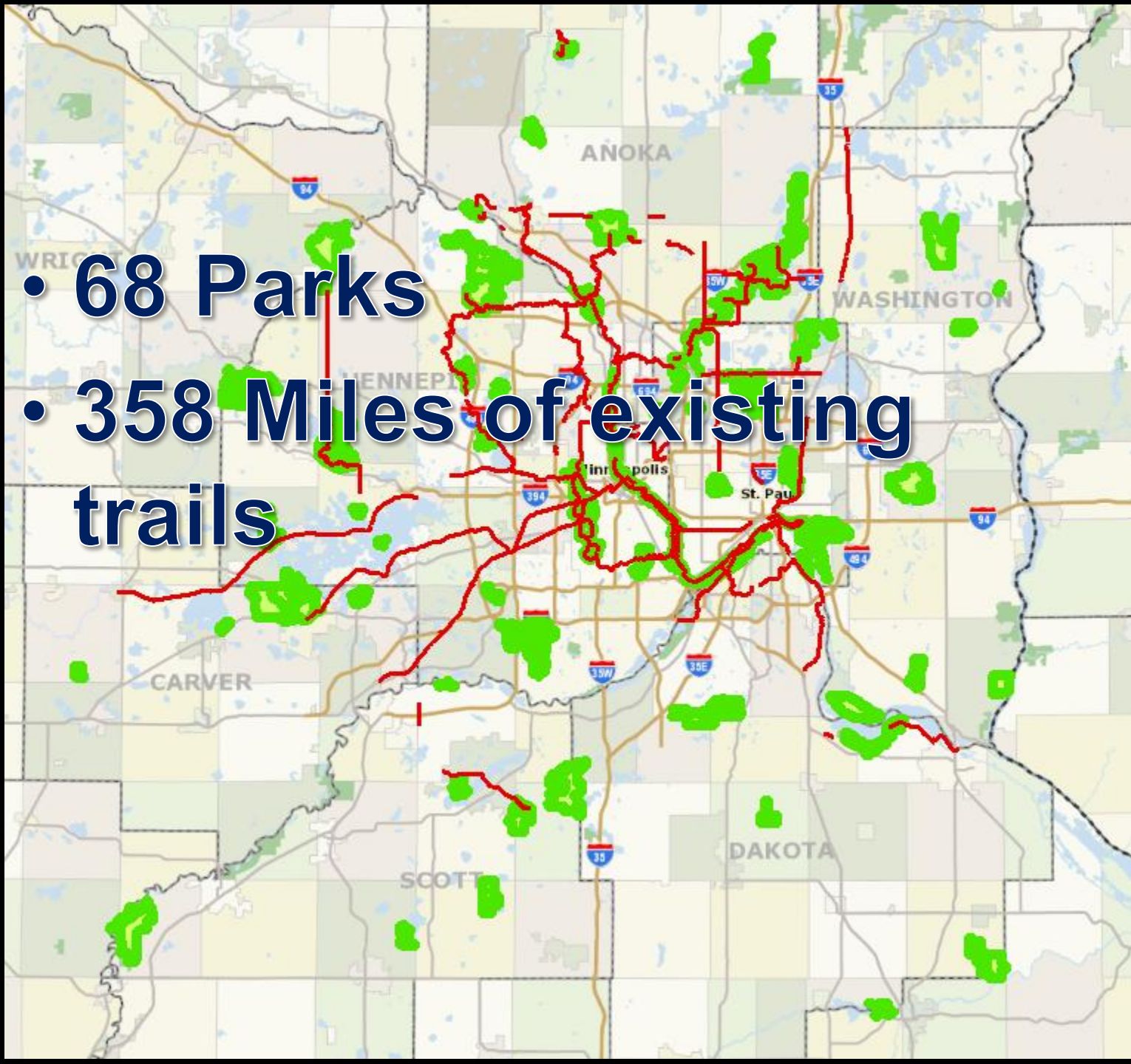




• 68 Parks



- 68 Parks
- 358 Miles of existing trails



- 
- A map of the Minneapolis-St. Paul metropolitan area and surrounding regions, including parts of Anoka, Washington, Hennepin, Carver, Scott, and Dakota counties. The map displays a network of trails: solid red lines represent existing trails, and dashed red lines represent planned trails. Green shaded areas indicate park locations. Major highways such as I-35, I-94, I-494, I-55, and I-694 are also shown.
- 68 Parks
  - 358 Miles of existing trails
  - 226 Miles of planned trails



- 20 miles existing trails
- 51 miles proposed trails
- 75 miles trails in parks
- 6100 acres parks
- Many large city parks

# Whitetail Woods Regional Park



Whitetail Woods  
Regional Park

Empire Lake

STATO ST

ANNETTE AVE

# Whitetail Woods Regional Park

- 12 Miles of trails



# Whitetail Woods Regional Park

- 12 Miles of trails
- Adjacent to DNR land



21

# WHITETAIL WOODS REGIONAL PARK

*forever wild*  
VIRGINIA

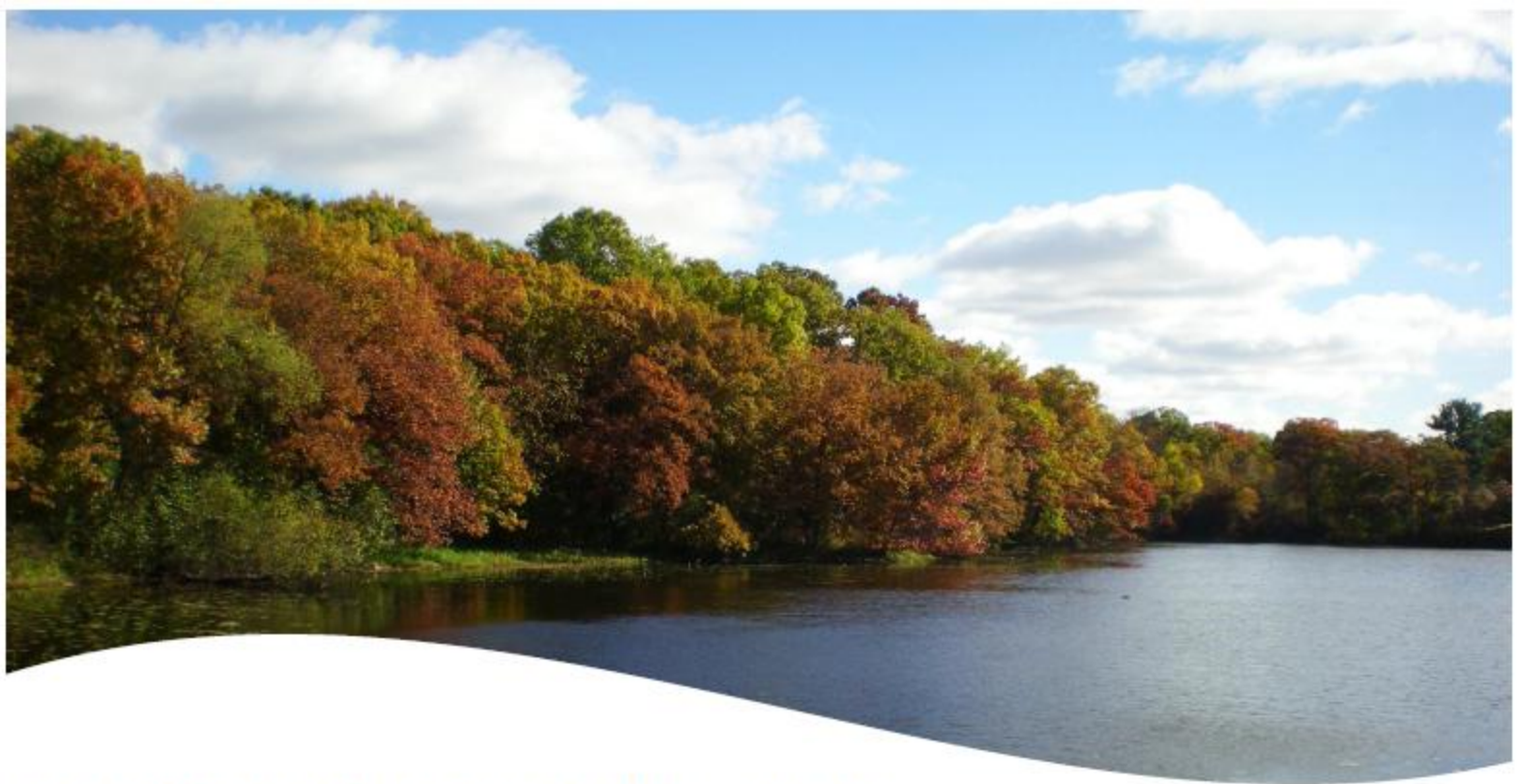


**Legend**

- Trails
- Parking
- Restrooms
- Water
- Shaded Area
- Boundary

151  
VK  
9339  
4790

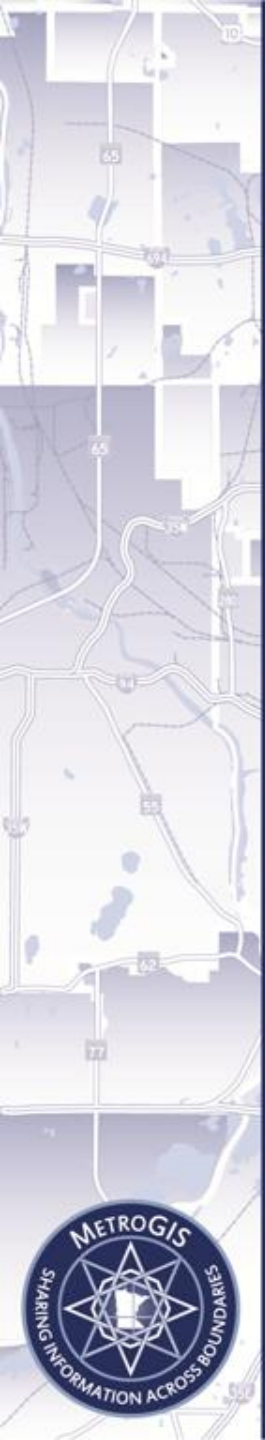




# **LEBANON HILLS REGIONAL PARK DEVELOPMENT MASTER PLAN**

Draft: October 24, 2013

Dakota County Parks • Dakota County Office of Planning • HKGi • Barr Engineering



Emergency Location Markers (ELMs) provide Global Positioning System (GPS) compatible locations to help emergency responders find you.

In case of emergency, call 911 and provide the information on the nearest ELM.



## U.S. National Grid EMERGENCY LOCATION MARKERS



Emergency Location Markers (ELMs) on the U.S. National Grid (USNG), provide universal location marking systems for recreational trails and other U.S. rural areas without formal street addresses.

These signs are GPS (Global Positioning System) compatible location markers that help emergency responders find you. In case of emergency, call 911 and provide the information on the nearest ELM.

9/26/2014

## Emergency Location Markers

Blue Emergency Location Markers (ELMs) are located throughout the park at

- Examples:
1. Find ELM 15T VK 9262 4785
  2. Find GPS 15TVK9302548135

**Read right, then up!**



**Using ELMs:**

1. Talking to the caller:
  - a) Do you have an ELM?
  - b) If not, where are you?
  - c) Read the ELM to me.
2. On the map:
  - a) Use the grid to find the ELM.
  - b) Then, find the ELM on the map.
  - c) The ELM is located here.

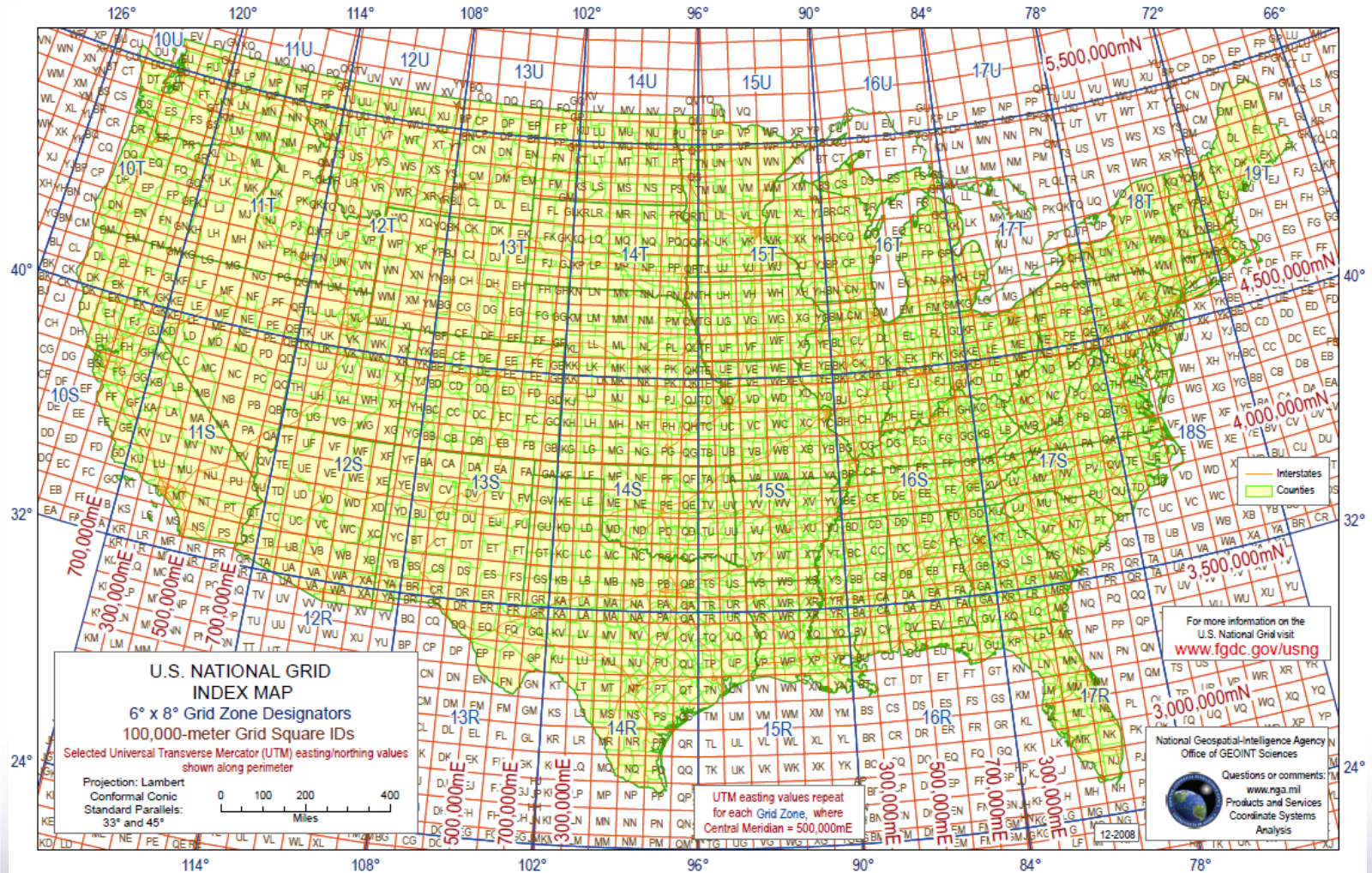
**Using GPS:**

1. Talking to the caller:
  - a) Caller provides ELM coordinates.
  - b) Ask for the ELM coordinates.
  - c) Locate the ELM on the map.
  - d) Their location is here.
2. On the map:
  - a) Use the grid to find the ELM.
  - b) Then, find the ELM on the map.
  - c) Then, find the ELM on the map.
  - d) Their location is here.

Note: "VK" is consistent for the eastern half of Dade County.



# U.S. National Grid



# U. S. National Grid

- National standard since 2001
- Adopted by federal agencies
  - FEMA, DHS, NGA, USGS
- Adopted by several states
  - Florida, Missouri, North Carolina, others
  - Minnesota (March 25, 2009)
- Military Grid Referencing System (MGRS)
  - National Guard
  - All NATO forces



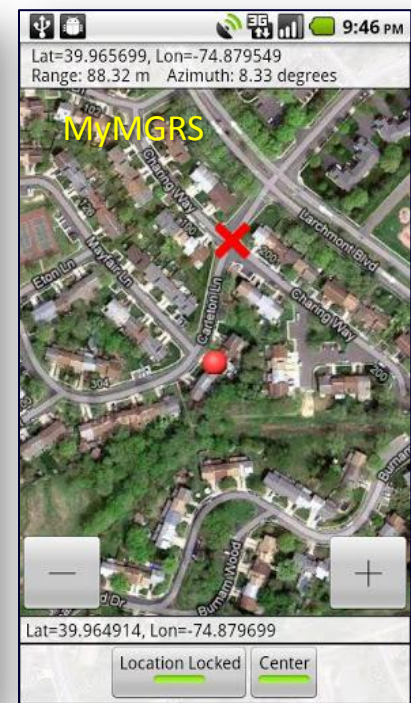
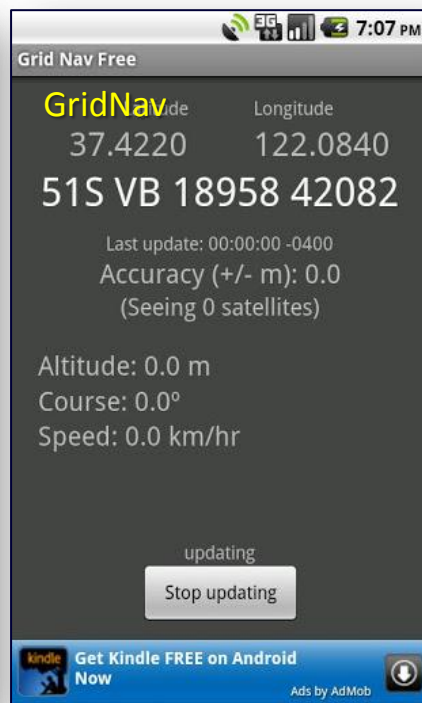
# National Search And Rescue Committee

Federal-level committee formed to coordinate civil search and rescue (SAR)





# Mobile Apps



SAMSUNG

← → usngapp.org ↻ ★ 5

U.S. National Grid Location

15T

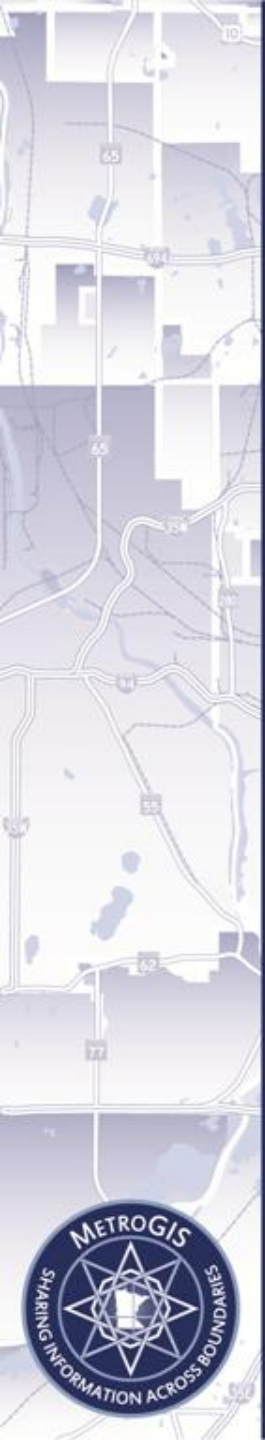
VK

8341

5333

GPS set to U.S. National Grid/WORM INADEQ

Map/Location history • Wm. F. O'Connell 2016





# Pilot Project

- Work with first responders to develop:
  - Sign placement guidelines
  - Training exercises and materials
  - Standard maps and educational materials
  - Public education



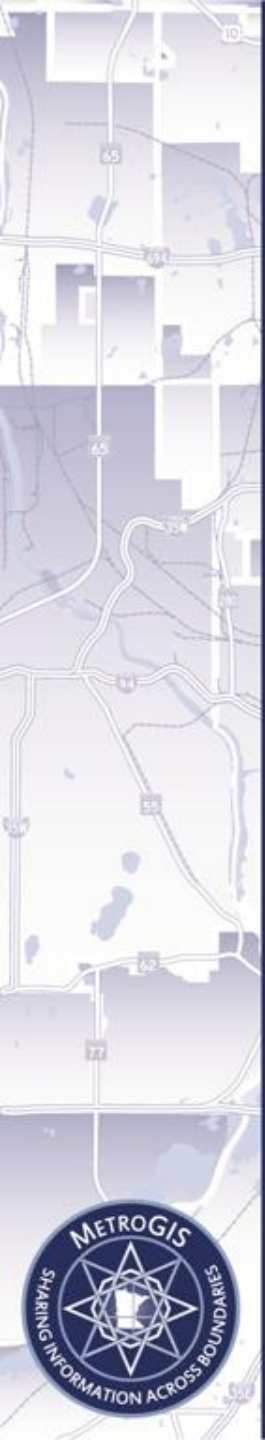
# Lebanon Hills Regional Park



# Lebanon Hills Regional Park

- 47 Miles of trails





**Emergency Location**

For Help  For Help

Dial 911 **15T** Dial 911

**VK**

**9296**

**4923**

GPS set to U.S. National Grid/MGRS (NAD83)

# Agenda Item 5d: Funding for Collaborative Programs

**Dan Ross**

State Geospatial Information Officer  
Minnesota Geospatial Information Office  
MN.IT Services



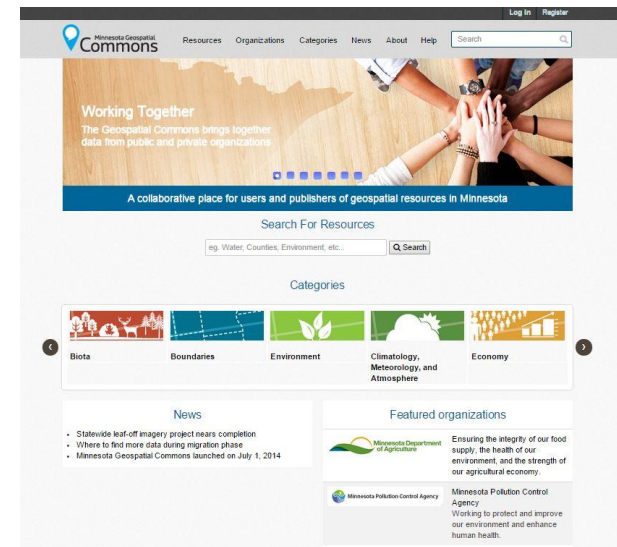
# Legislative Funding Proposal

Request for funding for **foundational data, services and applications;**

**Minnesota Geospatial Commons** to be the focal point for **delivery of data and collaboration;**



[gisdata.mn.gov](http://gisdata.mn.gov)

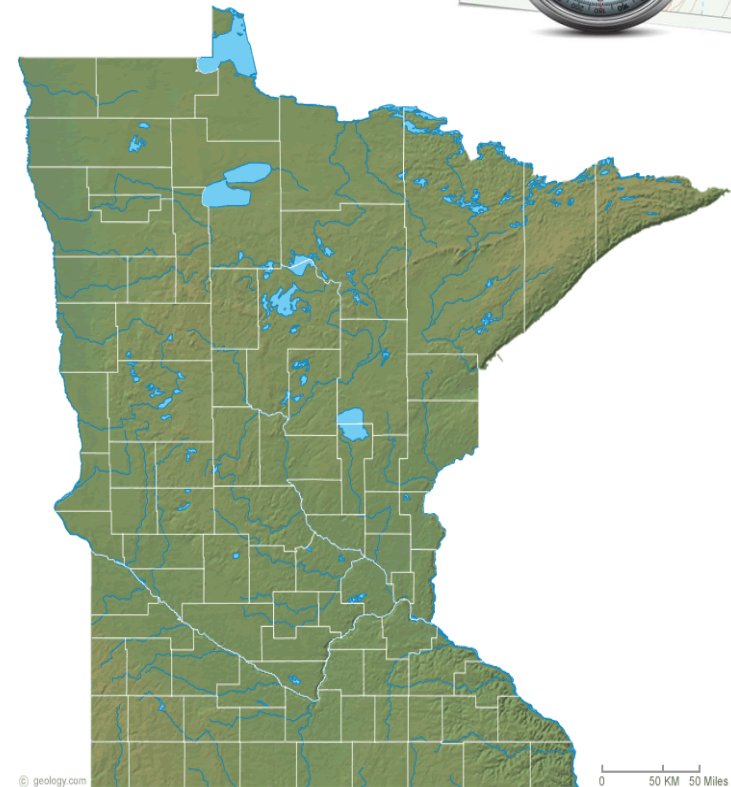


# Legislative Funding Proposal

Focus on **data aggregation** and **standardization statewide**;

**Data & Services: Publicly Available**

**Statewide Geospatial Advisory Council will guide the investments**



# Priorities

*Should the funding become available*

Shared data and services

## Minnesota Geospatial Commons



Collaborative partnerships to create and sustain statewide data and services for:

Centerlines

Address points

Parcel data

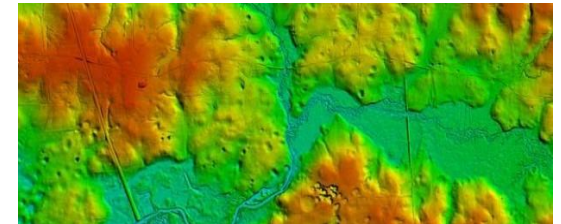


Sustainable programs for updates to:

LiDAR

Aerial Imagery

Hydrography and groundwater data





**Discussion?  
Questions?  
Concerns?**





# Agenda Item 5e: Road Centerlines Projects Update

**Dan Ross**

State Geospatial Information Officer  
Minnesota Geospatial Information Office

**Matt Koukol**

GIS Manager, Ramsey County

**Mark Kotz**

GIS Manager, Metropolitan Council  
Chair, MetroGIS Addressing Work Group

**Geoff Maas**

MetroGIS Coordinator

**October 23, 2014**

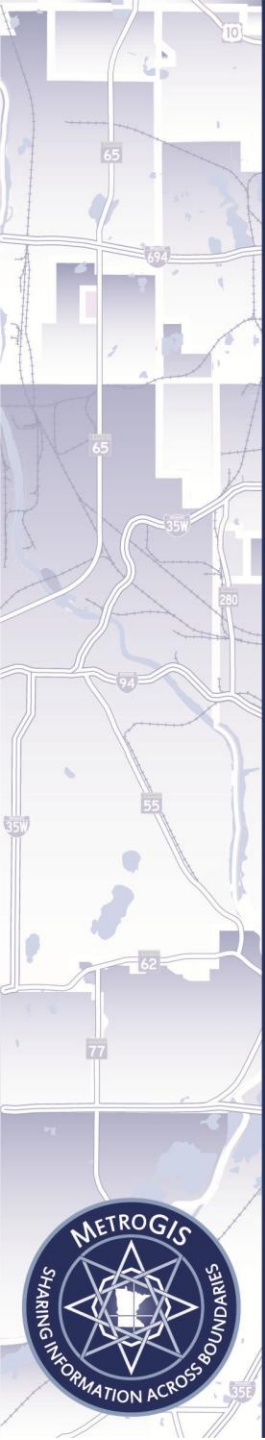


# Project Goal:

To develop a **road centerline data solution** that meets a wide variety of agency needs;

Sourced from **local road authorities;**

Best data comes from **local sources;**





# Core tenets of the project

## Authoritative Road Dataset

All users can rely on it to represent actual roadway assets

## Multi-Purpose Road Dataset

- Meets many uses
- Reduces agency cost
- Eliminates redundant effort
- Facilitates better data capture
- Facilitates accurate inter-agency reporting

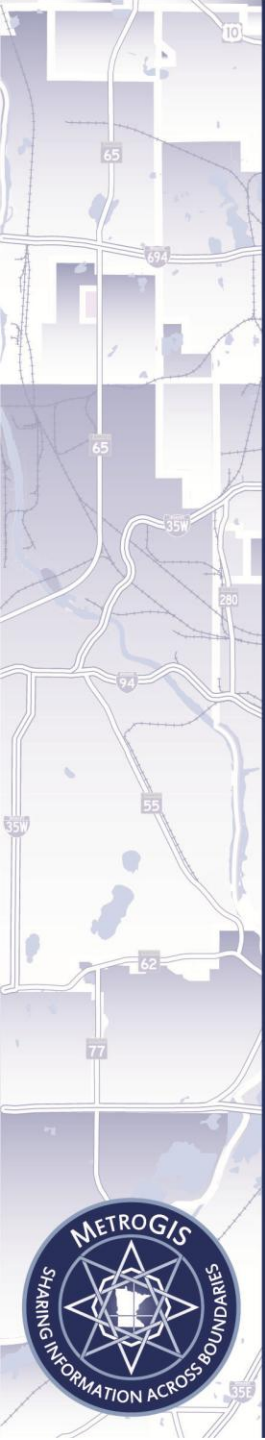
## Public-Domain Dataset

A version of the data will be freely available to non-government public data consumers;



# Examples of **Shared** Needs:

- **Accurate Mileage**
- **Accurate Direction**
- **Number of Lanes**
- **Correct Street Name(s)**
- **Correct Address Ranges**
- **Edge-Matched at Boundaries**
- **Cartographic Representation**



# Examples of **Specific Needs:**

## **MnDOT:**

*Federal mileage reporting*

## **County Governments:**

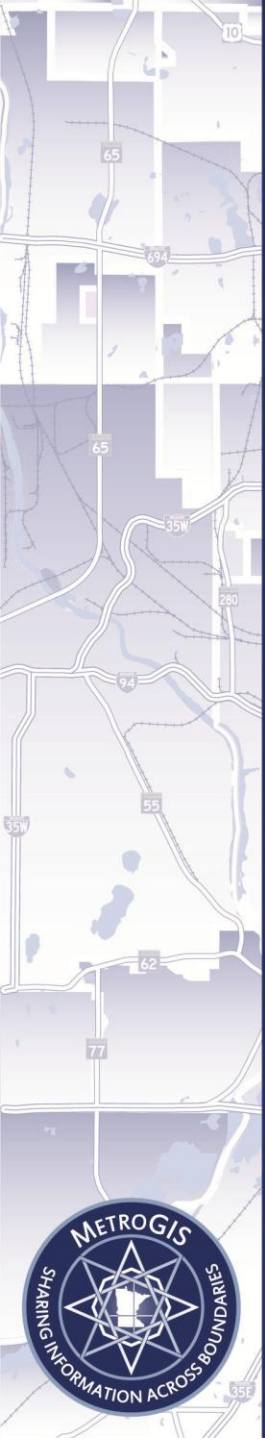
*Emergency response*

*Pavement management*

## **Metropolitan Council:**

*Transit Planning and Routing*

*Many, many others...*



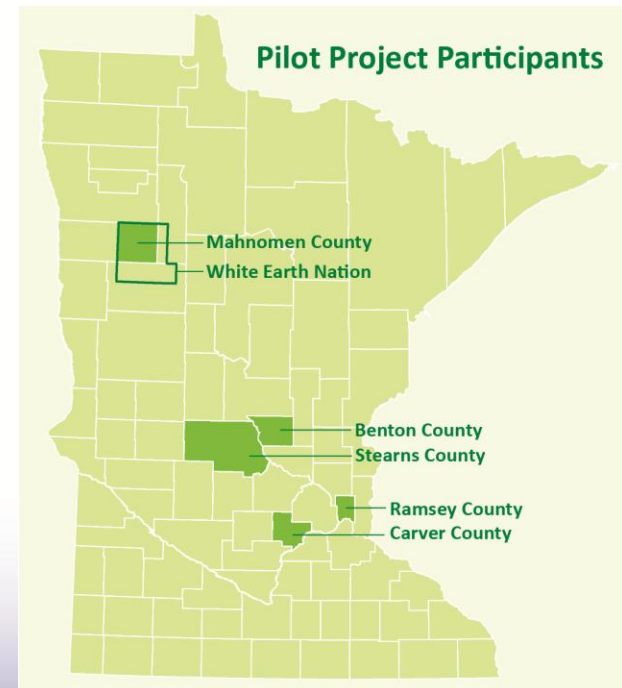
# At present:

## Metro Partners:

Re-activated metro road project in Spring 2014;  
Hennepin County providing coordination the project  
Agreed upon a draft local data model (Sept 2014);  
Developing a sample dataset for testing in late 2014;

## MnDOT & State Partners:

MnDOT refining its data;  
Developing tool sets;  
Engaged with pilot partners;



# Metro Regional Centerline Collaborative: Proposed Sample Dataset Area

*Line extending from  
end of 44th Ave NE  
to the center of  
Mississippi River*

44th Ave NE

44th Ave NE  
(County Road 2)

County Road E

1st Street NW

Mississippi River

ANOKA COUNTY

RAMSEY COUNTY

HENNEPIN COUNTY

Cleveland Avenue (County Road 46)




29th Ave NE *(Line extending through  
railroad property)*

29th Ave NE  
(County Road 94)

Eustis Street  
(County Road 23)



## Project Boundary Explanation:

-  Concurrent with existing roadway
-  No existing roadway
-  Concurrent with center of Mississippi River

Scale: 0 400 800

09.22.2014 (G. Maas)



**October 2014**

Requirements Gathering, Stakeholder Engagement. MnDOT Internal Data Alignment

Kick Off: Oct 2012

**Statewide Centerline Initiative**

Data Model & Sample Data Development  
Requirements Gathering

On-Going State & Metro Partners Collaboration

Fall 2011: Original Strategy Meeting

Kick Off: May 2014

**Metro Regional Centerline Collaborative**

Solicit Comment & Review from Stakeholders

**NCompass Road Centerline Licence Agreement**

January 1, 2016  
End of Contract

**2011**

**2012**

**2013**

**2014**

**2015**

**2016**



# Agenda Item 5f: Address Points Progress

**Mark Kotz**

GIS Manager, Metropolitan Council  
Chair, MetroGIS Addressing Work Group

**October 23, 2014**



# What are Address Points?



Results

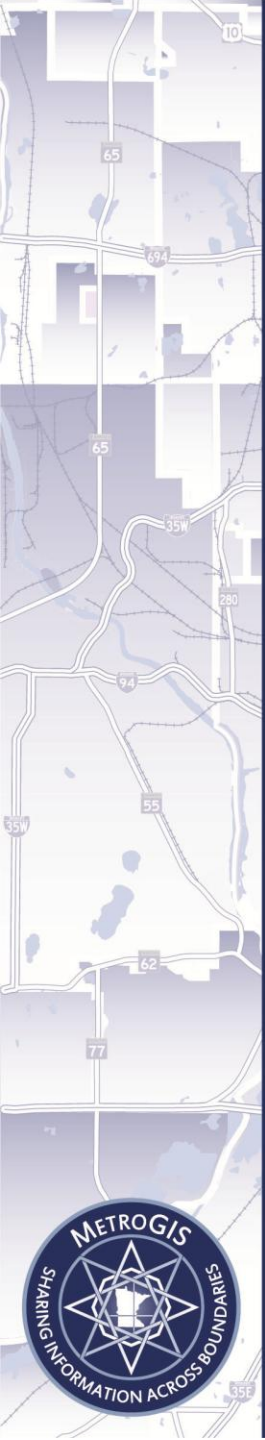
Parcels - Washington County

Parcels - Washington County Location: (506648.927213 4973958.512112)

Field	Value
FID	62290
Shape	Polygon
COUNTY_ID	163
PIN	163-1502821210062
OWN_NAME	KOTZ,MARK J & CATHERINE M
OWN_ADD_L1	2072 WALLINGFORD CIR
OWN_ADD_L2	.
OWN_ADD_L3	.
TAX_NAME	.
TAX_ADD_L1	.
TAX_ADD_L2	.
TAX_ADD_L3	.
HOMESTEAD	Y
BLDG_NUM	2072
STREET	WALLINGFORD CIR
CITY	WOODBURY
ZIP	55125
STATE	70000

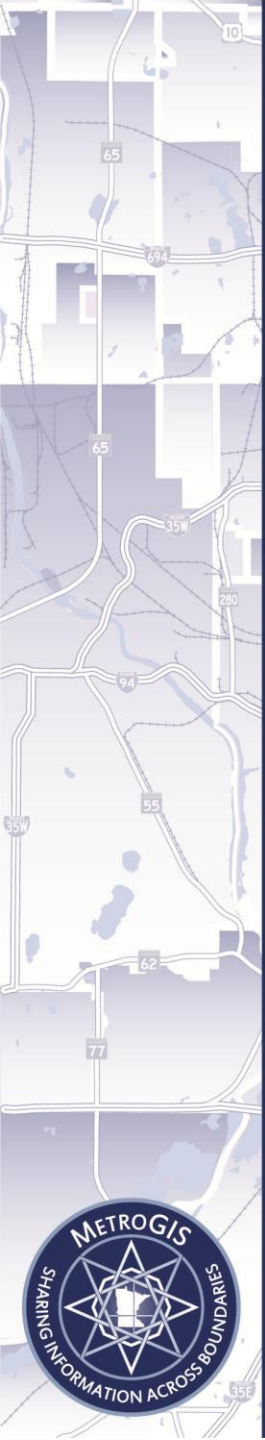


# What are Address Points?



# Why do we need them?

- Emergency response: NextGen 9-1-1;**
- Cities track individual units;**
- Mailing to residences or units;**
- Single authoritative source for data;**
- Streamline address change notification;**





# MetroGIS Vision

- A point for every official address
- From the authoritative source
- Up-to-date (weekly or daily)
- Standard format
- Region-wide
- Freely available
- Sustainable solution



29<sup>11/16</sup> AVE

7<sup>15/16</sup> ST



# Regional Dataset Status

- 2 of 7 counties (Dakota & Carver);
- 55 of 150+ address authorities;
- Ramsey County data (coming soon);
- “Periodic” updates;
- Synchronization strategy being developed;

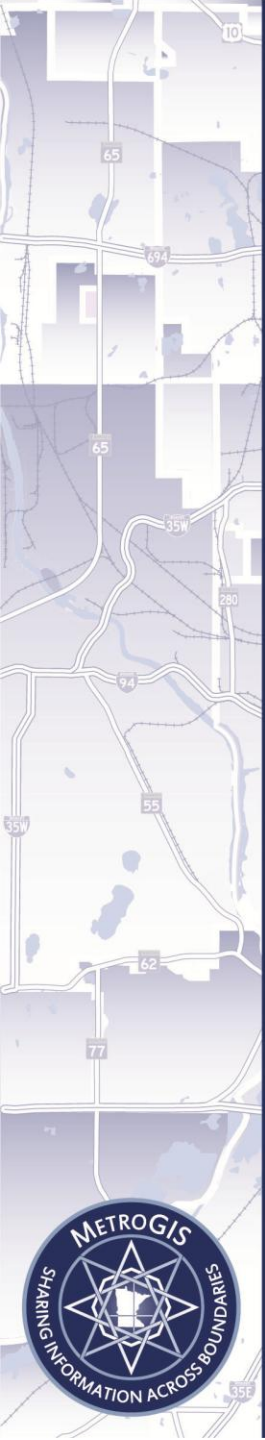




# Editing Tool Status

**Version 2.0** completed in January 2014

Status	Counties
<b>In Production/In Use</b>	Dakota County Carver County
<b>Testing</b>	Anoka County Hennepin County Ramsey County
<b>Considering</b>	Scott County Washington County





# Editing Tool Status

**Version 3.0** of the tool:

Estimated completion by end of January 2015

**New tool features:**

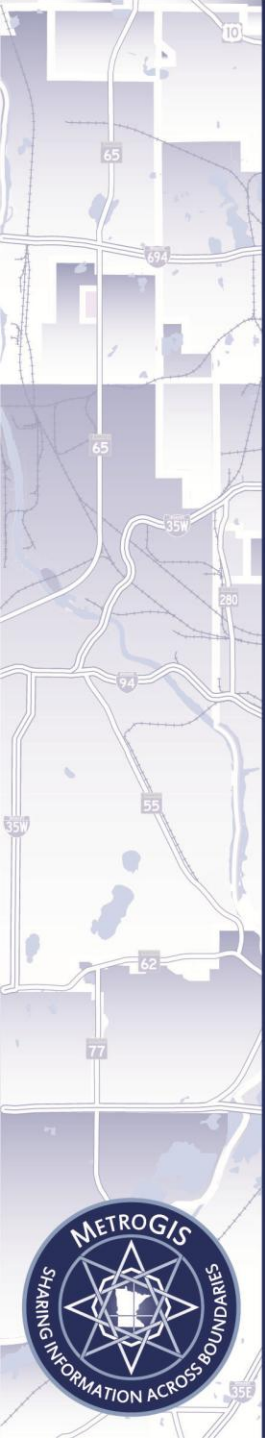
- *Address change reports;*
- *Proposed address reports;*
- *Calculate hypothetical address;*
- *User interface improvements;*

**Free to any government in Minnesota**

**State interest increasing**



# Questions?





# Agenda Item 5g: Stormsewer Dataset Initiative

**Geoff Maas**  
MetroGIS Coordinator  
Adjunct Professor, GIS, University of Minnesota

**October 23, 2014**



# Stormsewer Dataset Initiative

## Stormwater:

- Changing perception of stormwater;
- **Resource** rather than a waste product;
- Protection of surface water;
- Groundwater recharge potential;
- Managing larger & more intense rain events;
- Aging, sub-surface infrastructure;



# Multi-faceted issue

## > Surface Water

Protection of quality

Protection of its quantity

Water reclamation potential

## > Groundwater

Recharge potential

Water demand vs. water supply

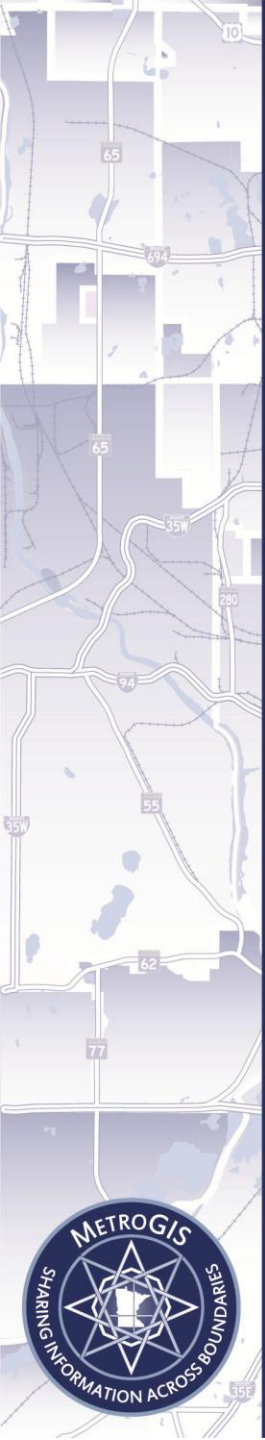
## > Infrastructure

Aging infrastructure system

Maintenance and upgrade costs



*All of these have fiscal, planning, resource and legal aspects;*



# Declining Lake Levels: White Bear Lake

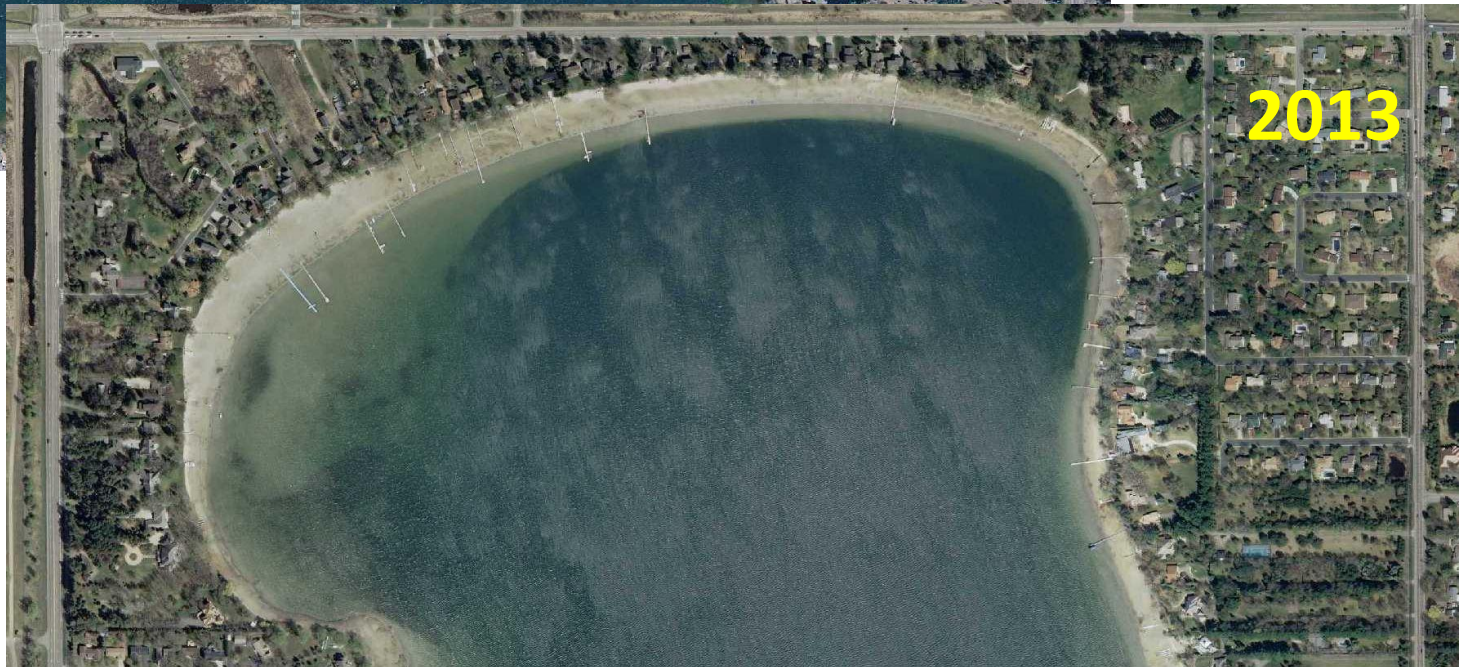
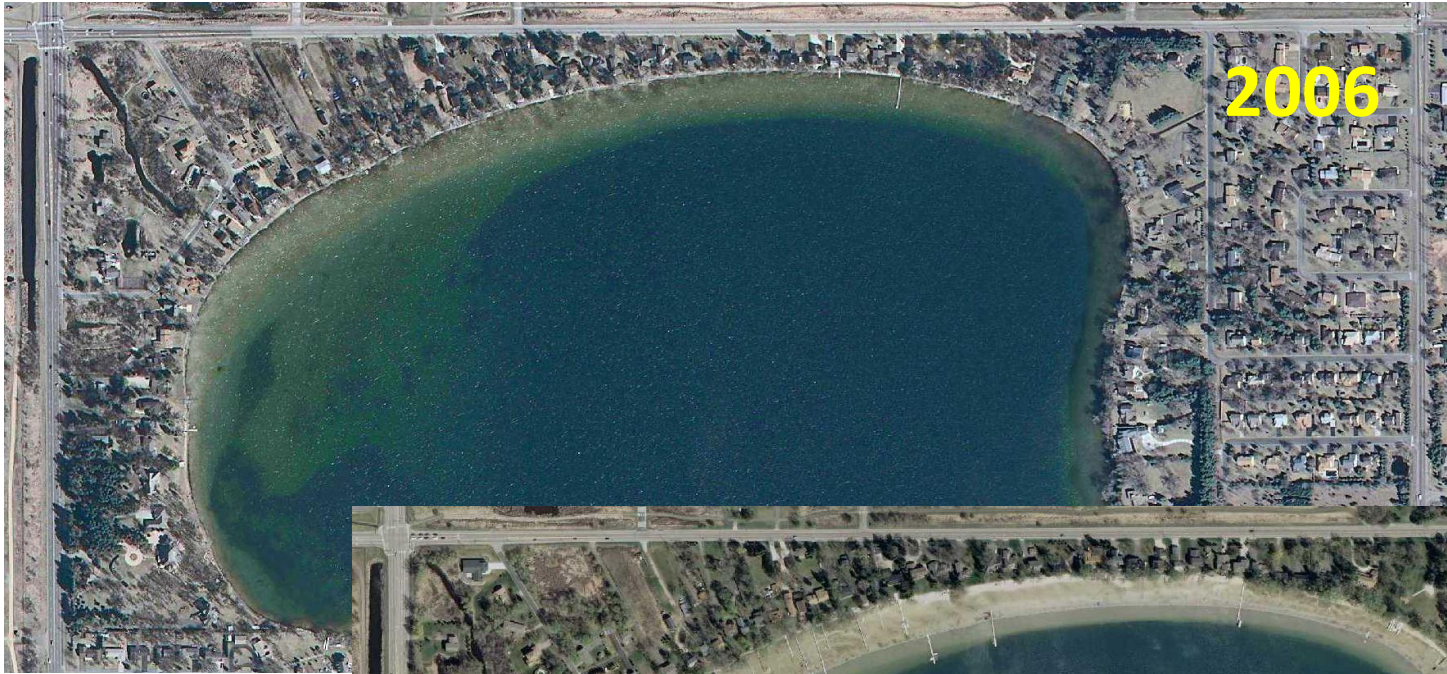


# Declining Lake Levels: White Bear Lake





# Declining Lake Levels: Turtle Lake (City of Shoreview)

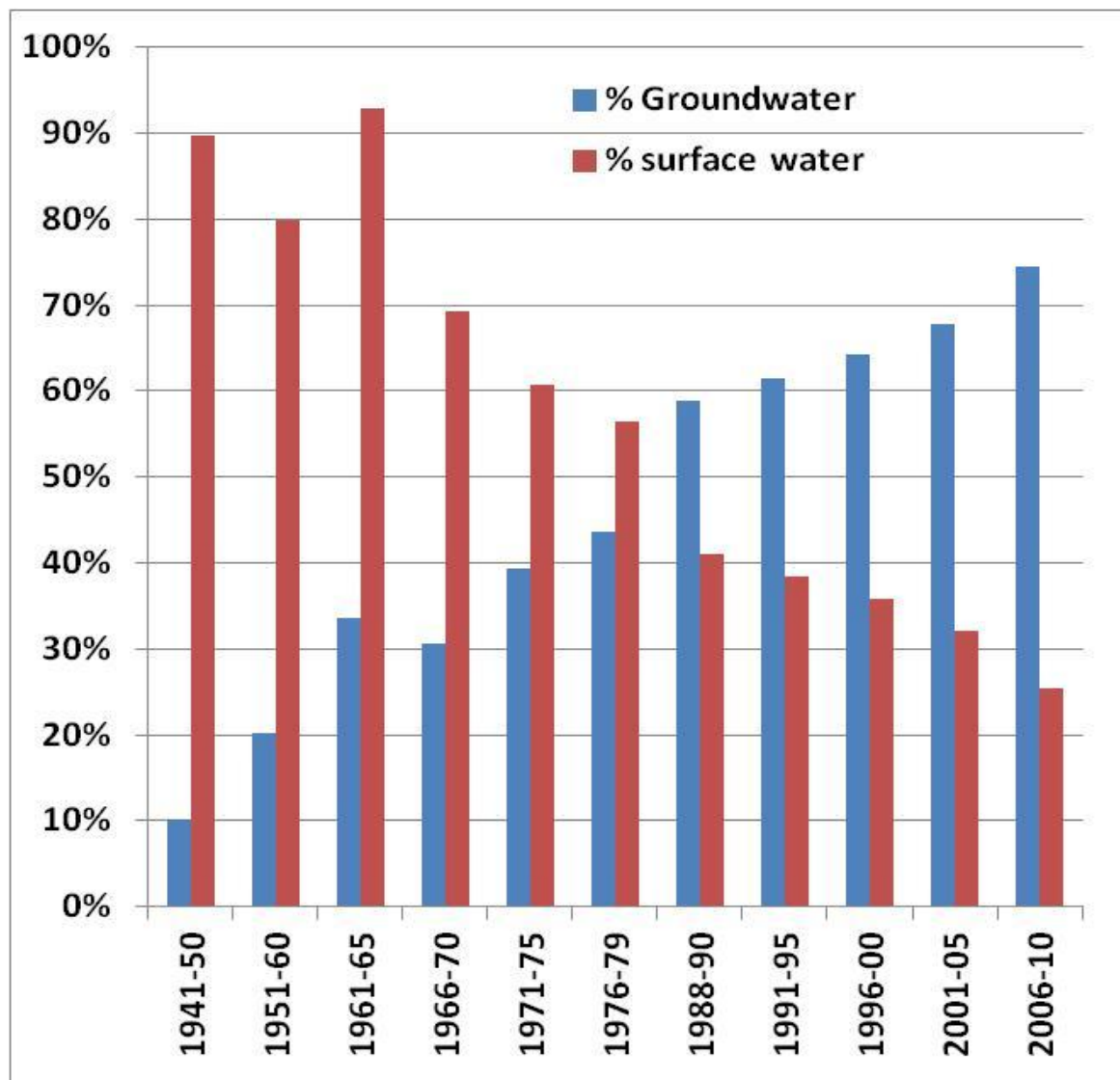


# Water Usage in the Metro:

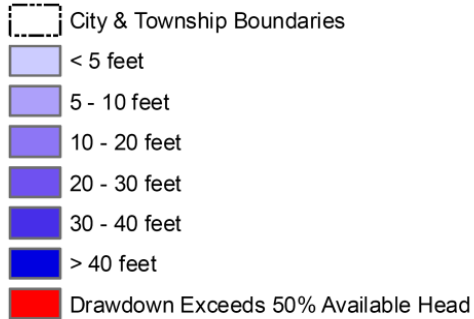
**Increased Reliance on Groundwater Pumping**

**Surface water was the major source of supply through the 1970s**

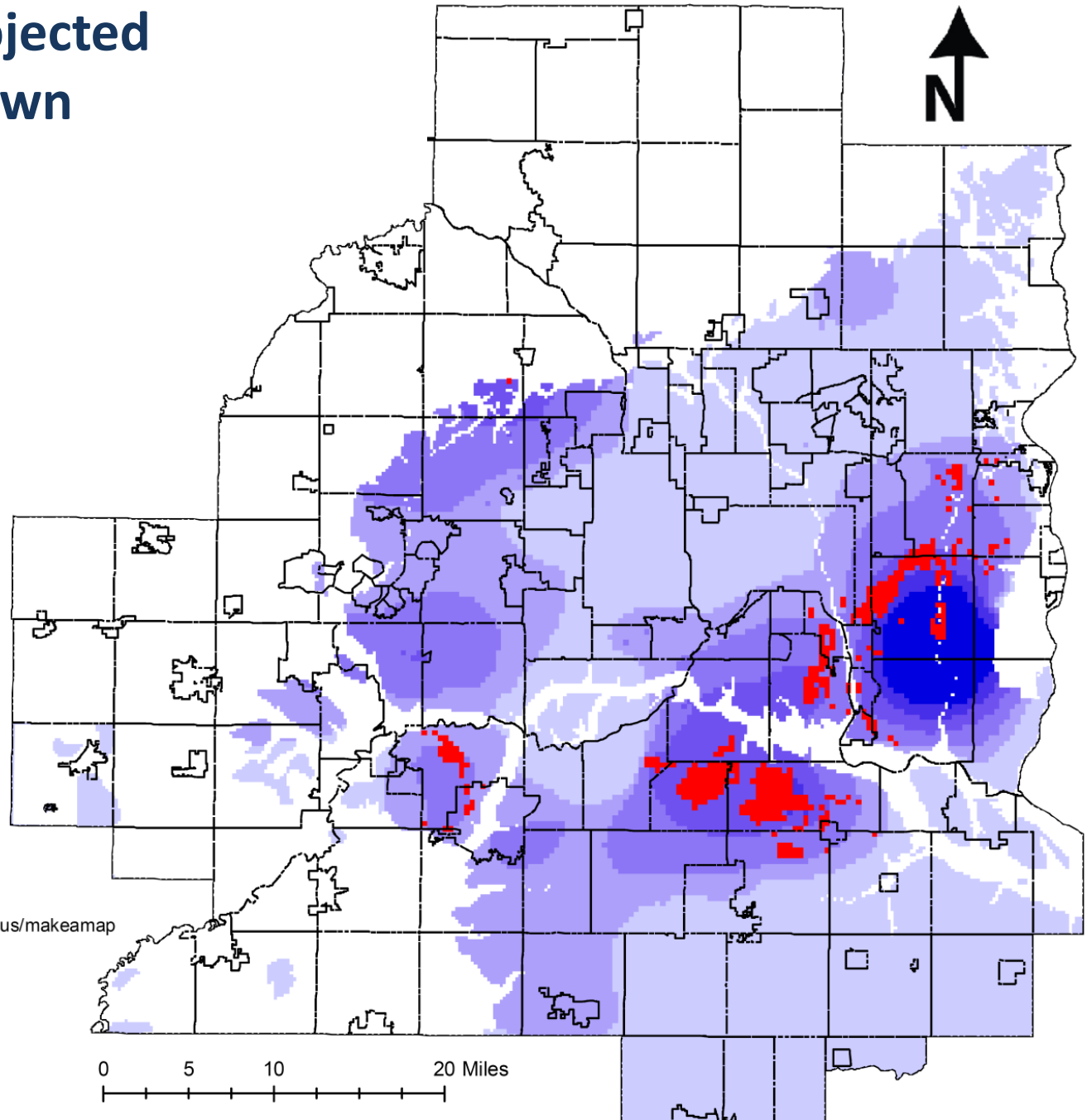
**Groundwater has been tapped to meet growth needs since 1980s**



# 2030 Model-Projected Aquifer Drawdown



Note: These model results assume long-term average conditions and continued development of traditional water supplies. Summer conditions may exacerbate short-term drawdown.



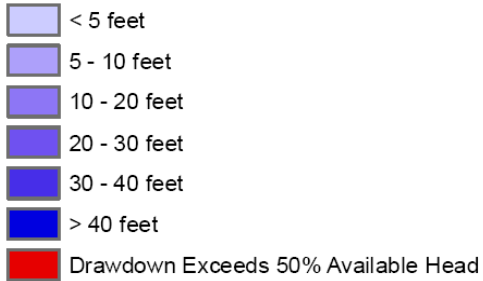
Metropolitan Council, 8/26/2009  
View datasets online at <http://gis.metc.state.mn.us/makeamap>

Source:  
Metropolitan Council

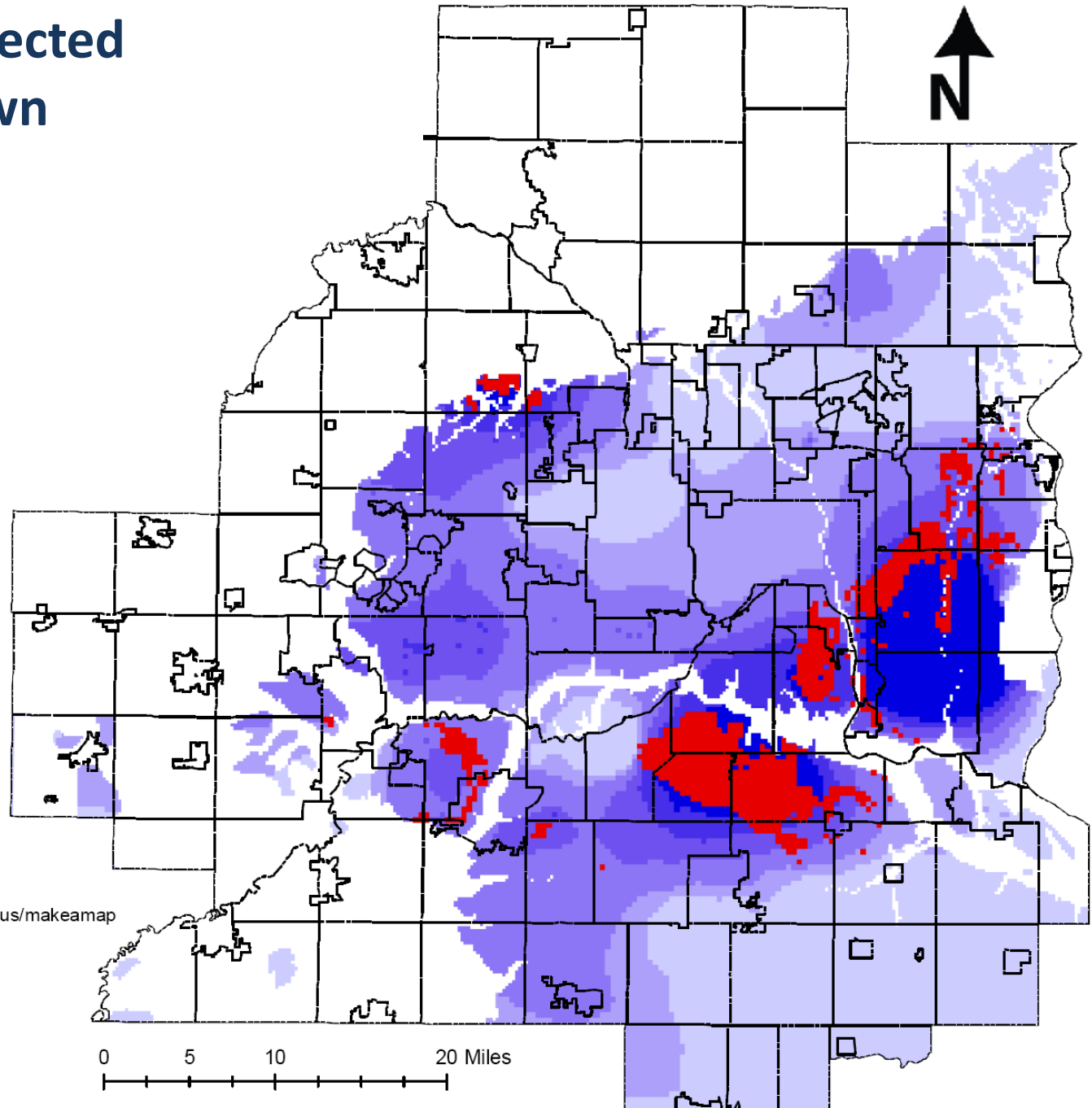
# 2050 Model-Projected Aquifer Drawdown

 City & Township Boundaries

## Model-projected Drawdown: 2050



Note: These model results assume long-term average conditions and continued development of traditional water supplies. Summer conditions may exacerbate short-term drawdown.



Metropolitan Council, 8/26/2009  
View datasets online at <http://gis.metc.state.mn.us/makeamap>

Source:  
Metropolitan Council

# More Frequent Extreme Rain Events

## DOUBLED TROUBLE MORE MIDWESTERN EXTREME STORMS



the  
ROCKY MOUNTAIN  
CLIMATE  
Organization

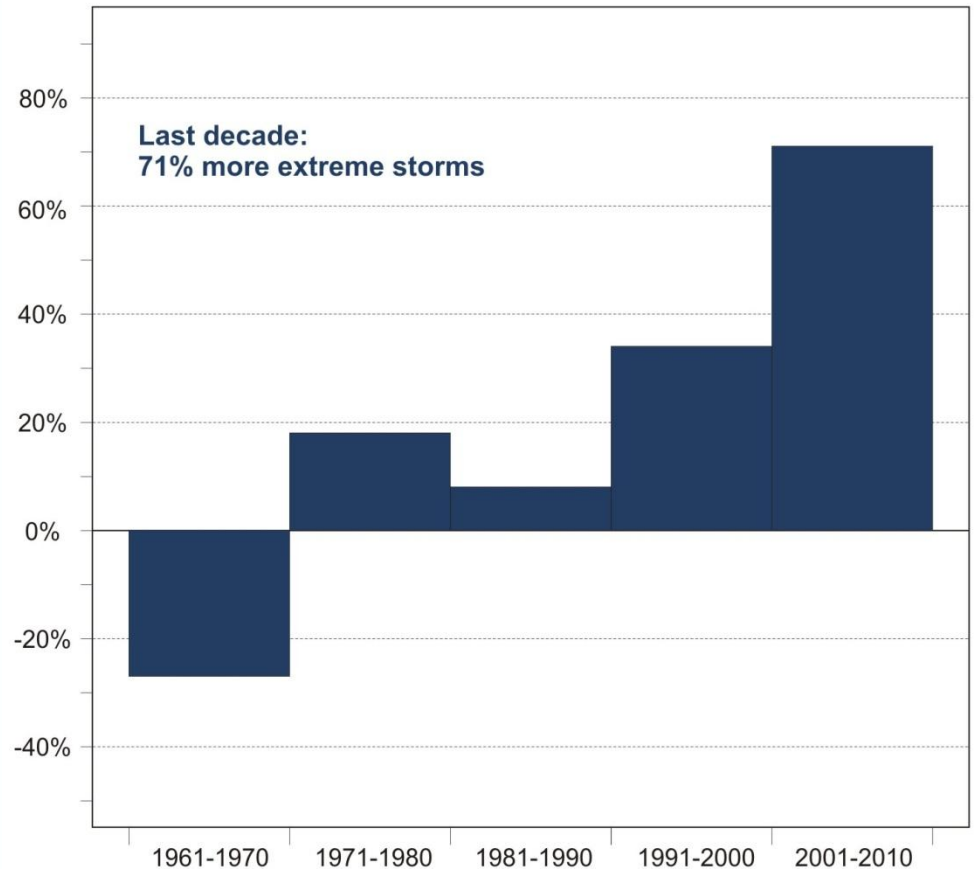


Principal Authors  
Stephen Saunders  
Dan Findlay  
Tom Easley  
The Rocky Mountain Climate Organization

Contributing Author  
Theo Spencer  
Natural Resources Defense Council

May 2012

## Minnesota



**National Resource Defense Council Report (May 2012)**

[www.nrdc.org/media/2012/120516a.asp](http://www.nrdc.org/media/2012/120516a.asp)

# More Frequent Extreme Rain Events

## WEATHER - EXTREME TRENDS

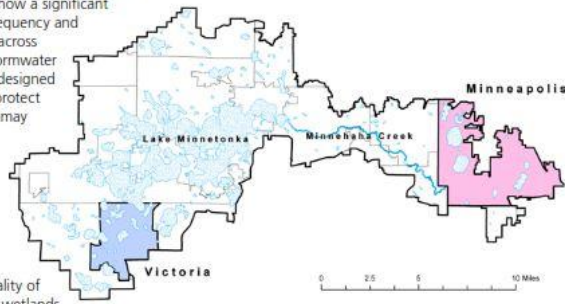
### The Minnehaha Creek Watershed Stormwater Adaptation Study



#### Problem:

Climate research, current weather patterns and projected trends show a significant increase in both the frequency and severity of rain events across Minnesota. Existing stormwater management systems designed to control runoff and protect property when it rains may no longer function as intended. The infrastructure in these systems may prove inadequate, resulting in increased flooding, damage to property, public safety concerns, and impacts to the quality of our lakes, streams and wetlands.

#### Minnehaha Creek Watershed



**Objectives:** The Minnehaha Creek Watershed Stormwater Adaptation Study will address some of these challenges for both growing and fully-developed communities. The study will:

1. Examine precipitation and land use trends within the watershed
2. Use that information to evaluate existing stormwater management systems
3. Identify ways to adapt our systems – including costs – to changing precipitation patterns
4. Facilitate a community-led planning process to provide a framework for developing local stormwater adaptation plans



MINNEHAHA CREEK  
WATERSHED DISTRICT

#### For more information, please contact:

**Leslie Yetka** • Education Manager • Minnehaha Creek Watershed District  
Ph: 952-641-4524 • [Lyetka@minnehahacreek.org](mailto:Lyetka@minnehahacreek.org)

**Telly Mamayek** • Communications Director • Minnehaha Creek Watershed District  
Ph: 952-641-4508 • [Tmamayek@minnehahacreek.org](mailto:Tmamayek@minnehahacreek.org)



## Timeline

### Spring 2012

- Develop future precipitation and land use models
- Host First Forum: Stakeholder Input and Adaptation Assessment

### Fall 2012

- Complete analysis of stormwater management systems
- Develop cost-analysis for stormwater management system adaptation
- Host stakeholder work group meetings derived from the First Forum

### Winter 2013

- Host Second Forum: Stormwater Adaptation – Planning
- Host community workshops to share findings and strategies

### Summer 2013

- Host Third Forum: Regional Stormwater Adaptation Symposium
- Share research findings, adaptation strategies, resources, and next steps

## Frequently Asked Questions

**Q: Why should I or my organization participate in this study?**

**A:** Results of this study will provide updated information on how to adapt stormwater management systems to changing weather patterns, ensuring a community is ready for more frequent extreme weather events. This preparedness will protect public property, public safety and a community's financial and environmental resources. The study will also provide a cost analysis of various stormwater adaptation approaches, which will help guide a community's decision-making process. By participating in the process, you can help determine the scope and direction of this research, making sure it addresses local needs.

**Q: What will participation in this study cost me or my organization in terms of money and/or time?**

**A:** This project is grant funded. No financial contributions will be requested from participants or organizations. Every effort will be made to utilize participants' time in the most focused and productive manner possible. Generally, time commitments will not exceed those presented in the timeline, including forums and task force meetings. All time contributed to this project is on a voluntary basis.

**Q: Will this study result in the imposition of new policies or regulations that I or my organization will be held accountable for?**

**A:** This study will be informed from current climate science with recommendations based upon the interests and priorities of local communities within the watershed. The Minnehaha Creek Watershed District and other local governments may use information generated from this study as a framework for future planning and policy-making decisions. Policy changes, if any, will be addressed through existing public processes.

**Partners:** Project partners include Syntectic International LLC, Antioch University New England, the University of Minnesota, and Stratus Consulting. Funding for this two-year study is provided through a grant from the Climate Program Office of the National Oceanic and Atmospheric Administration.



STRATUS CONSULTING



**Minnehaha Creek Watershed District**

<http://www.minnehahacreek.org/project/weather-extreme-trends>

# Dealing with Large, Damaging Events



***Duluth Flooding***  
**June 17-20, 2012**  
**>\$100 Million in damage**



# Regulatory Environment

## MS4 Permit Issued in May 2013

Increased demand to  
*'hold water in place'*

*Post-construction* conditions are to emulate *pre-construction* conditions;

Tracking and removal of illicit discharges:  
*'...mapping all storm sewer pipes between 12" and 24" ...'*

Stormwater ponds:  
*20-year lifespan, due for cleaning;*  
*Has potential to be very costly;*





# Stormwater Regulatory Authorities in Minnesota

	Federal Agencies			State Agencies				Local/Regional	
	EPA	COE	FEMA	PCA	DNR	BWSR	MDH	METC	LGU*
Erosion & Sediment Control									
Lake/Stream/River Protection									
Wetland Protection									
Ground Water Protection									
Surface Water Protection									
Construction Discharge									
Municipal Discharge									
Industrial Discharge									
Agricultural Discharge									
Flood Control									

- Primary Permitting Authority
- Permitting Authority (Under Specific Circumstances)
- Review Authority on Permits
- Enforcement Authority

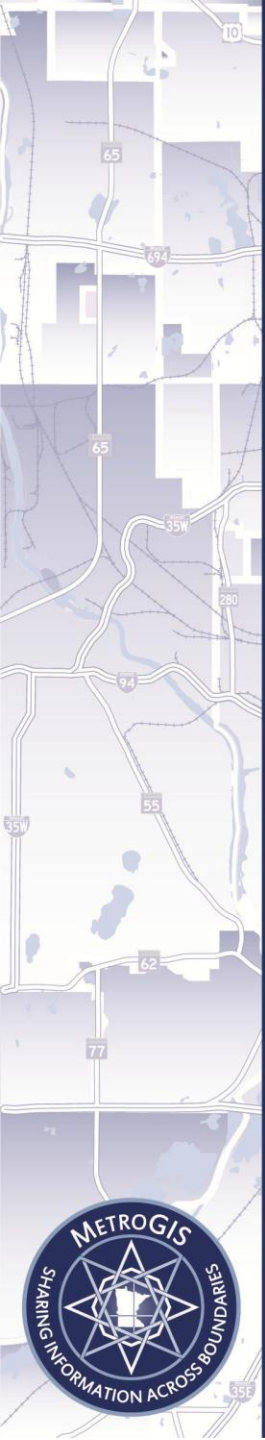
\*Local Government Unit:

In Minnesota this can mean county, city, township watershed district or tribal government unit.

# Stormsewer Dataset Initiative

## Where GIS comes in:

- Flow modeling;
- Infrastructure asset management (inspections, repairs);
- Mapping and visualization;
- Meeting permit requirements;
- Large data producer and user community using the same data and working together (*at all levels of government*)



# Data Producers



# Data Consumers



# *What is the Proposed Project?*

## Long-Term Project Goal:

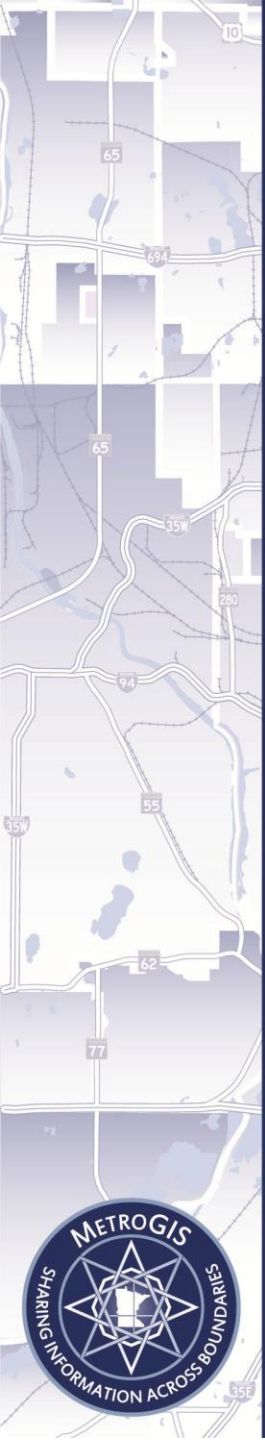
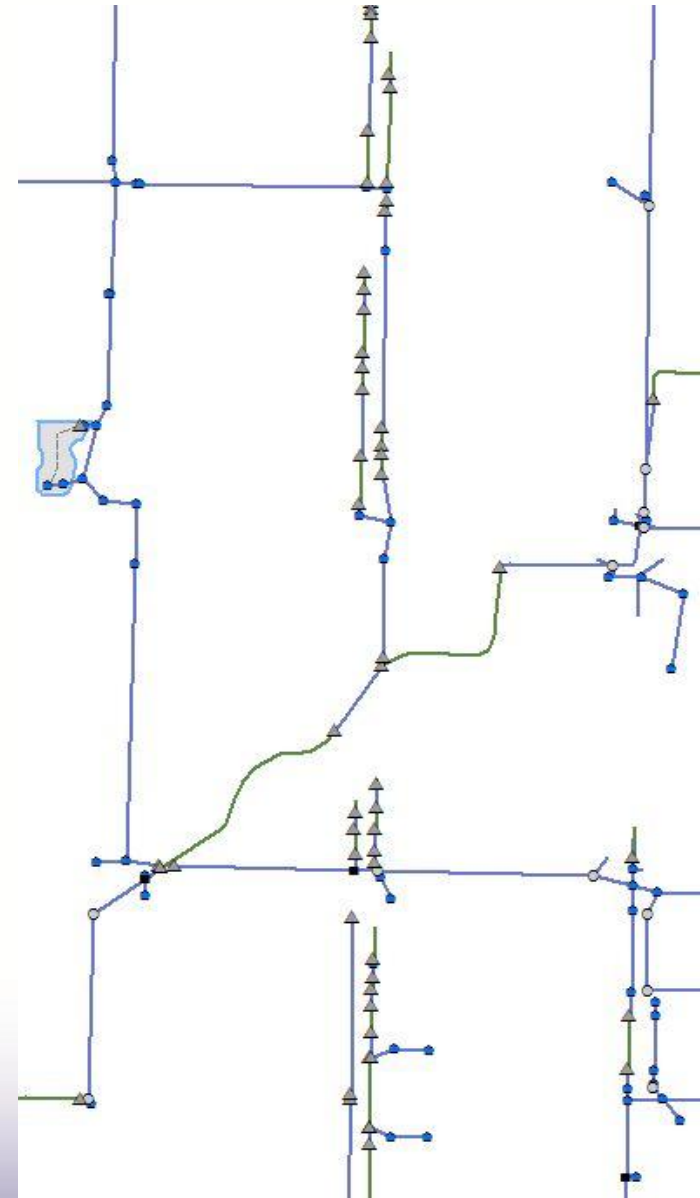
To develop and maintain a **region-wide stormsewer asset dataset** that is:

...produced and updated from **the authoritative data;**

...utilized for **public benefit** by its user community;

...easily acquired by approved users;

...provides **benefit to all participants** (both the data producer and consumers);



# Current Status: In Development

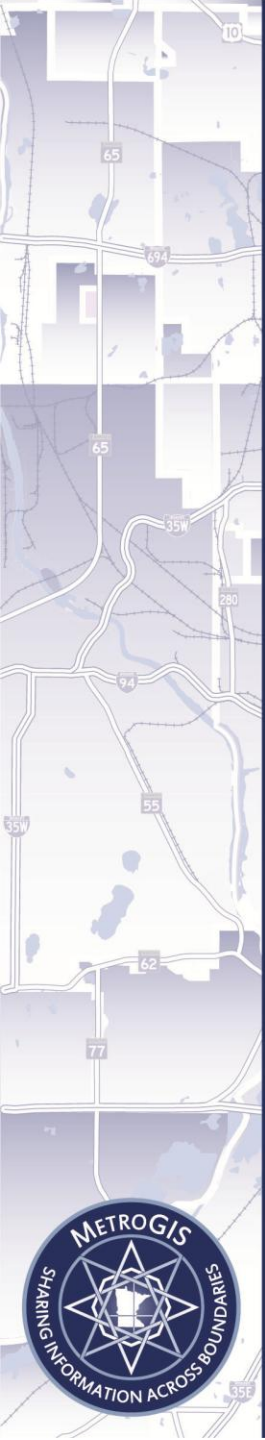
*Research & documentation of specific business cases*

## Completed:

Metropolitan Mosquito Control District	(8/28/14)
University of Minnesota Ecology Lab	(9/5/14)
Ramsey-Washington Metro WSD	(9/12/14)
MetCouncil Environmental Services	(9/26/14)
City of Shoreview	(10/13/14)
St. Olaf College GIS/Environmental Studies	(10/20/14)

## Scheduled:

U.S. Geological Survey	(11/5/14)
------------------------	-----------



# Stakeholders to be interviewed

Mississippi National River & Recreation Area

Minnehaha Creek Watershed District

Mississippi Region Watershed Mgmt. Org.

Capitol Region Watershed District

Other Metro regional watershed districts

County Soil and Water Conservation Districts

County Public Works Departments

Emergency Services (spill containment) interests

U of M St. Anthony Falls Stormwater Laboratory

U. S. Army Corps of Engineers

Any/all metro cities under an MS4 permit

Consulting engineering community

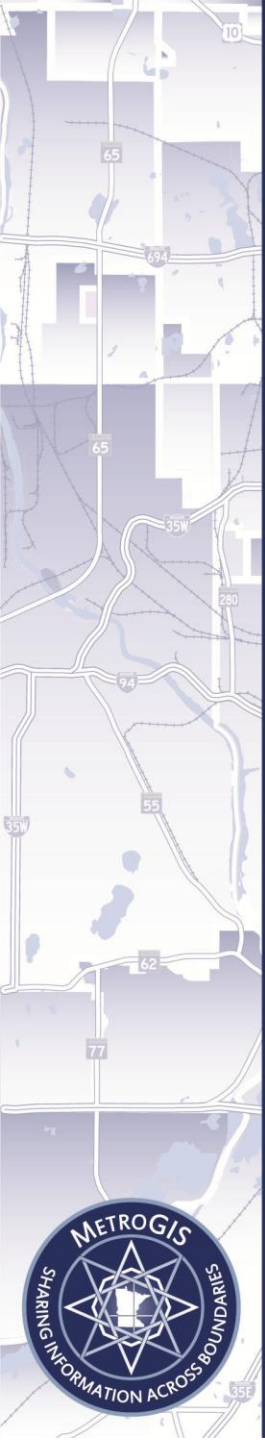
Bureau of Soil and Water Resources (BWSR)

Minnesota Dept. of Natural Resources (MnDNR)

Minnesota Dept. of Transportation (MnDOT)

Minnesota Department of Health (MDH)

Minnesota Pollution Control Agency (MPCA)





# Agenda Item 5h: MetroGIS Awards in 2014



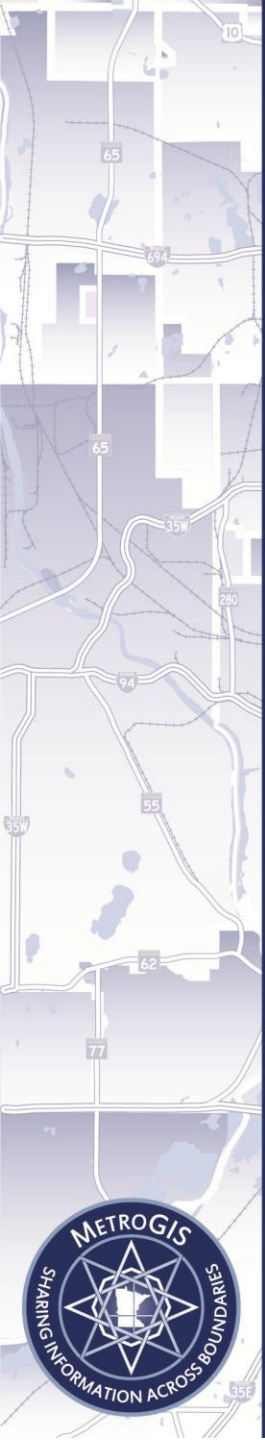


# Minnesota GIS/LIS Consortium Lifetime Achievement Award

Ramsey County Commissioner  
**Victoria Reinhardt**



October 2, 2014  
Rochester, MN  
MN GIS/LIS Annual Conference







# Minnesota GIS/LIS Consortium Polaris Award

**Minnesota Department of Natural Resources**  
MetroGIS Coordinating Committee Member

## Hal Watson

October 2, 2014  
Rochester, MN  
MN GIS/LIS Annual Conference





**University of Minnesota**  
**Humphrey School of Public Affairs**  
**Bush Foundation**  
**State Government Innovation Award**

# MetroGIS Free and Open Public Geospatial Data Initiative

August 7, 2014

St Paul, MN

Minnesota History Center

