Rice County GIS

Michelle Trager
GIS Planner

June 28, 2004

SE MN GIS Users Group Meeting

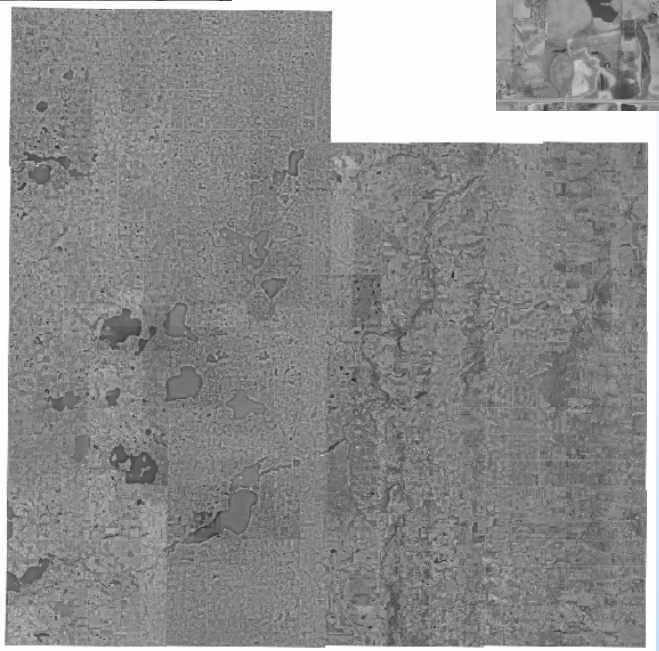
OVERALL

- *What Is The History of GIS in Rice County?*
- *Who Uses GIS?*
- *What is GIS Used For?*
- *What Were Some Roadblocks?*
- *How Do We Share?*
- *What About the Future?*

What Is the History of GIS in Rice County?

- 1997: ArcView- Used very little in Planning & Zoning
- 1999: ESRI Grant- ArcView, ArcInfo
- 1999: Community Based Planning Grant
  - Hired a Long Term Planner and an Intern
  - Hired the Martinez Corp. to Fly Orthophotography
  - Hired ProMap
    - * Created data (parcels, roads, lots, blocks, …)
    - * Created Specialized ArcView Projects
- 2000: Drafter Started to Maintain Data
- 2001: Hired GIS Planner
- 2001: Internet Site Created (http://rice.promap.com/pmc/)
- 2002-2003 : E-911 Roads Project- ProMap
- 2003- 2004: Faribault and Northfield Data
- 2004: Updated Data with More Section Coordinates

Orthophotography



Data

- Minnesota Planning
- Minnesota Department of Natural Resources
- Minnesota Department of Transportation
- The ProMap Corporation
- Soil and Water Conservation District (SWCD)
- Farm Service Agency
- Rice County Staff

Rice County Website

Who Uses GIS?

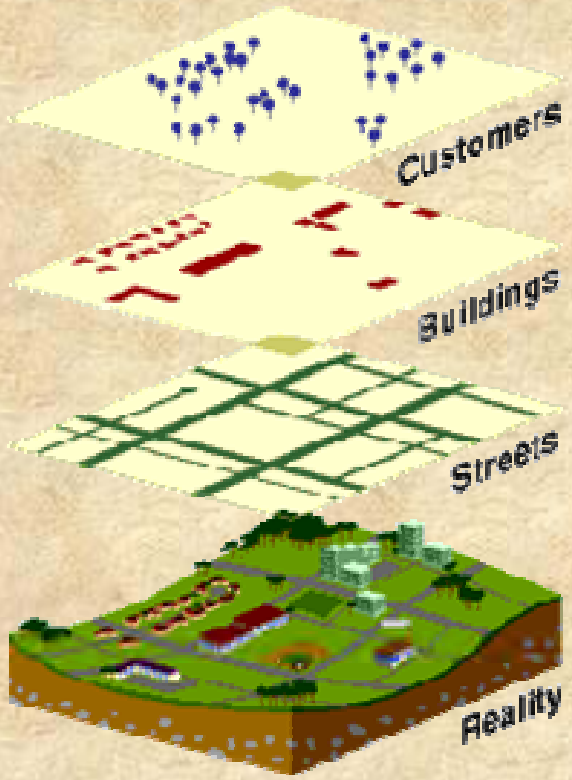
ArcGIS Users:

Planning and Zoning
(GIS Planner, Environmental Planners, Zoning Administrator, Feedlot Educator)

Assessor
(Drafter)

Auditor/Treasurer
(clerks)

Highway
(Engineers)

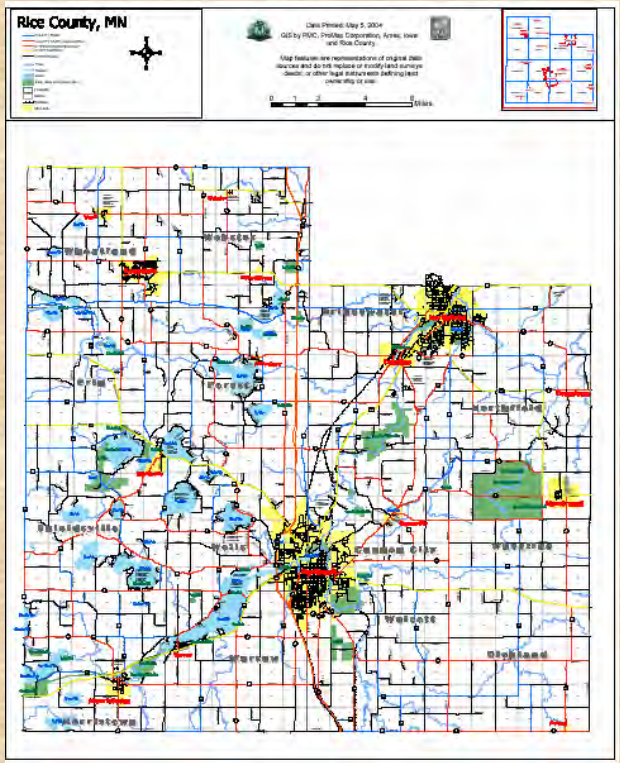


ArcIMS Users:

Administration, Attorney, Law Enforcement, Nursing/Public Health, others in above offices

What Is GIS Used For?

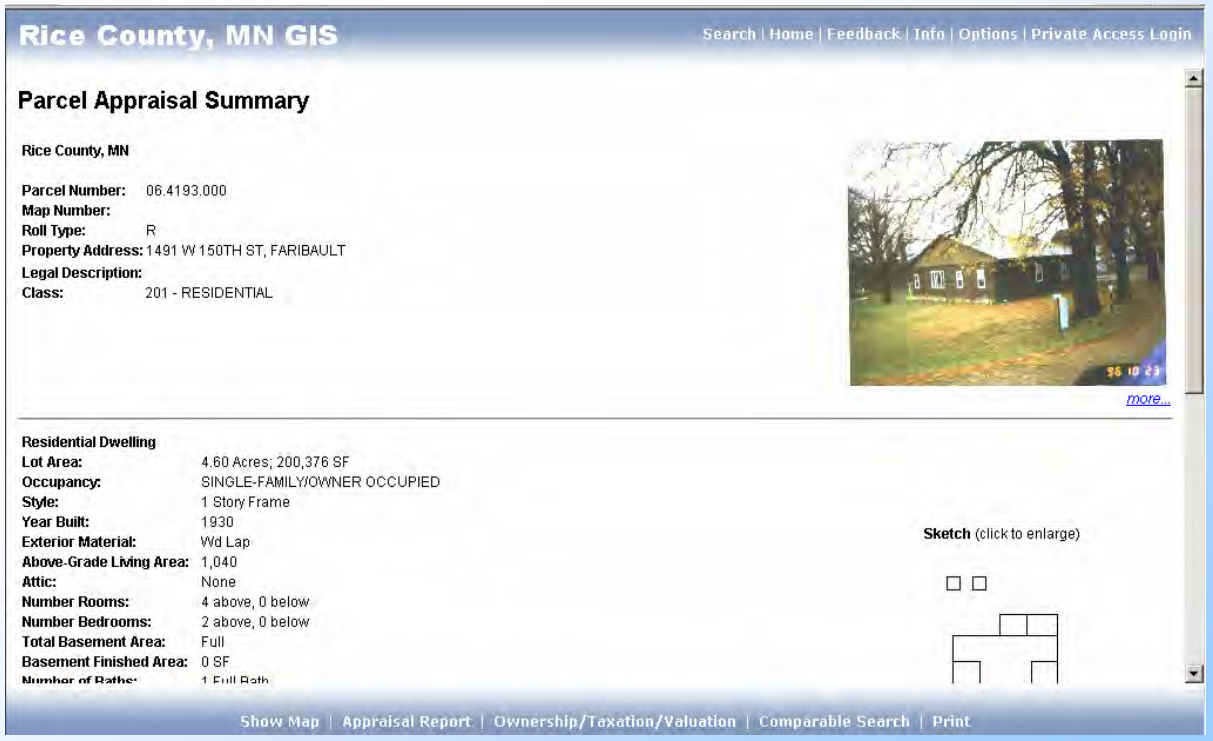
- Public Information
- Presentation
- Mapping



- Planning
- Zoning
- Environmental Health
- Environmental Planning
- Building
- General Information

Assessor

- Maintains Parcel Data (parcels, lots, blocks, …)
- Maps for Appraisers
- Crop Ratings (future)



Edit View Insert Selection Tools Window Help

Report: Parcel Summary Report

<Default>

1:339,544

Closure: n/a

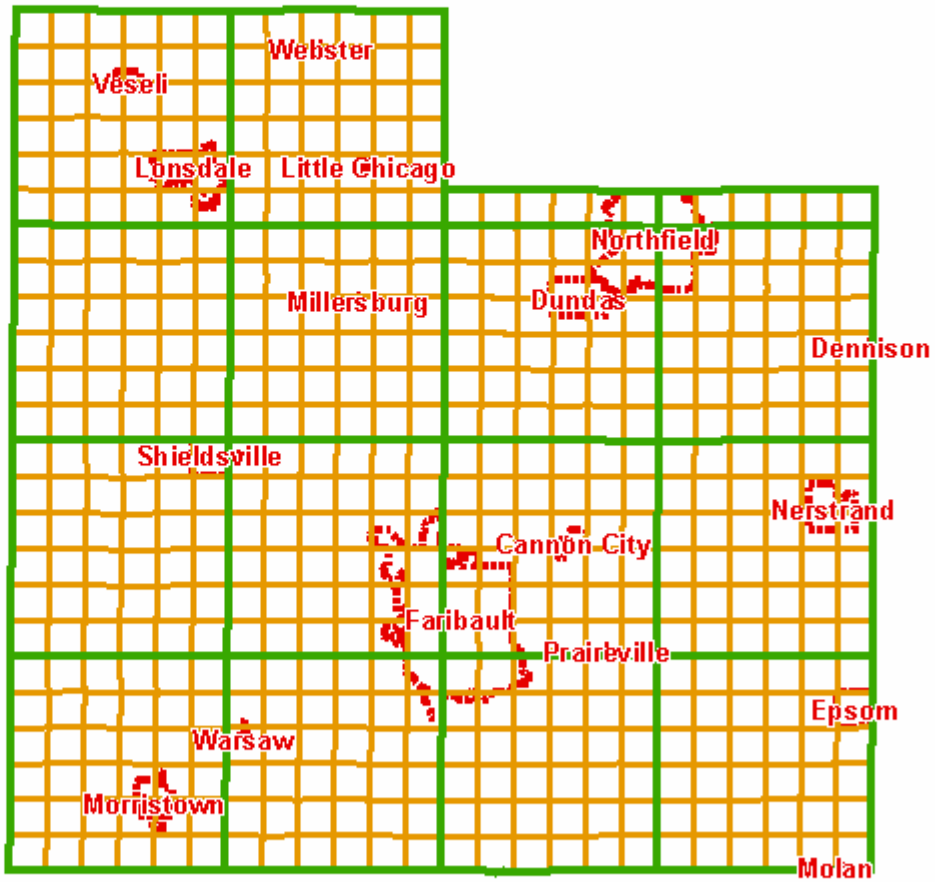
Task: Create New Feature

Target:

Overview

Layers

- Water
- Roads
- Annotation
- USPLS
- Cadastral
- Planning
- 2003 Aerial Photo
- Orthophotography

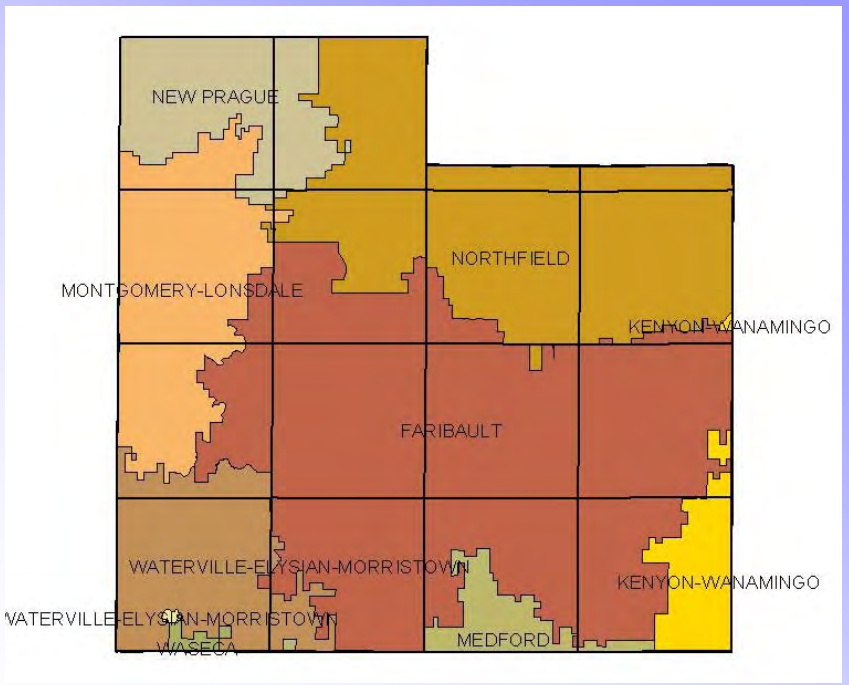


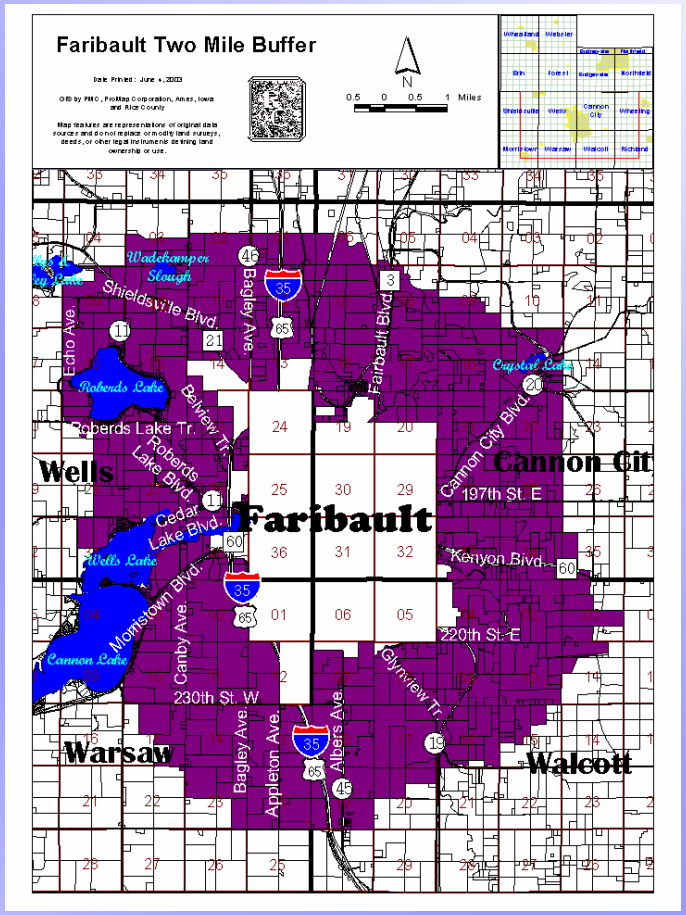
Source Browse Map

Arial 28

Auditor/Treasurer

- Check Parcel Splits, Plats, Combinations
- School Districts
- Two Miles Buffers
- Redistricting

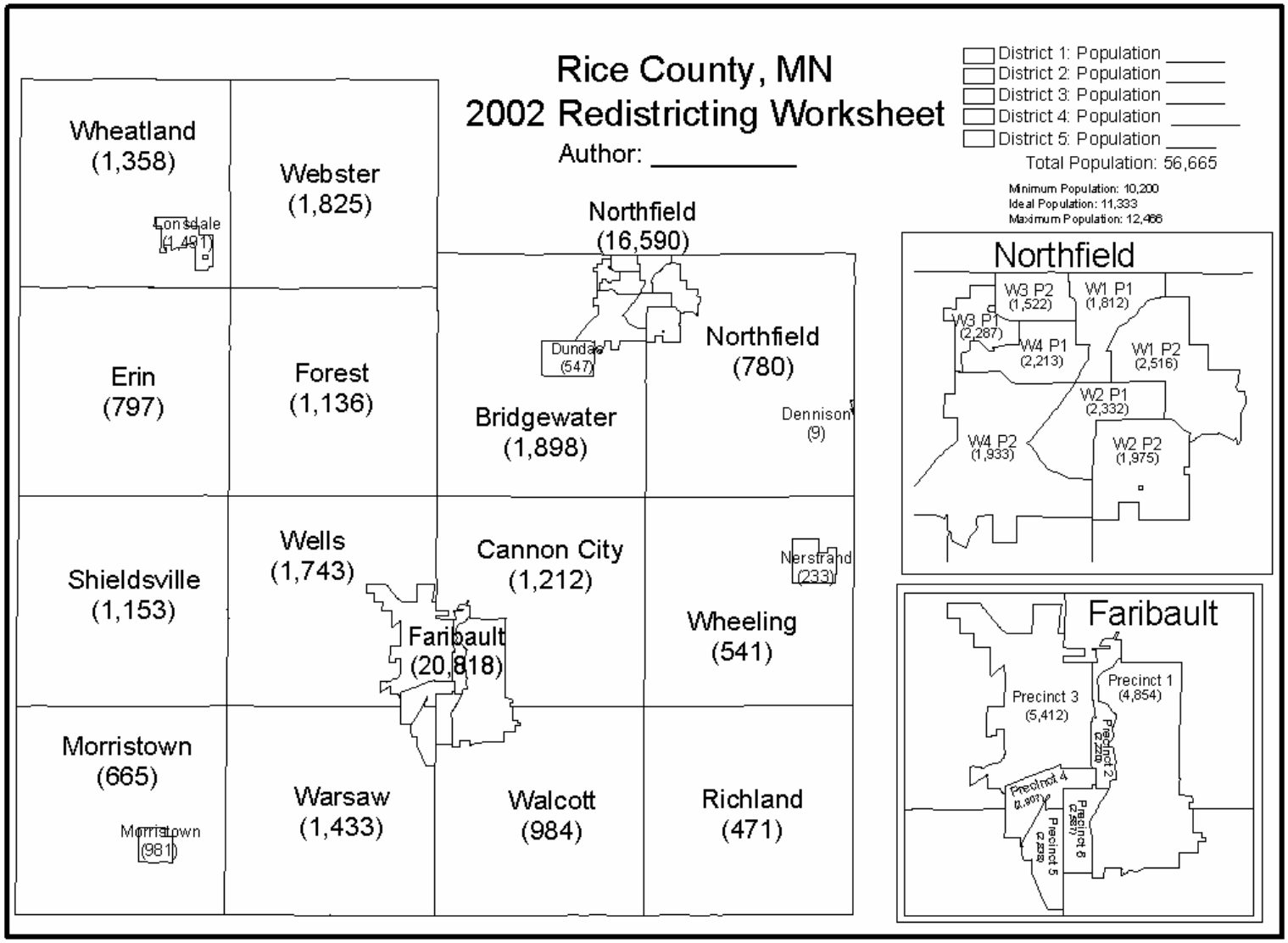




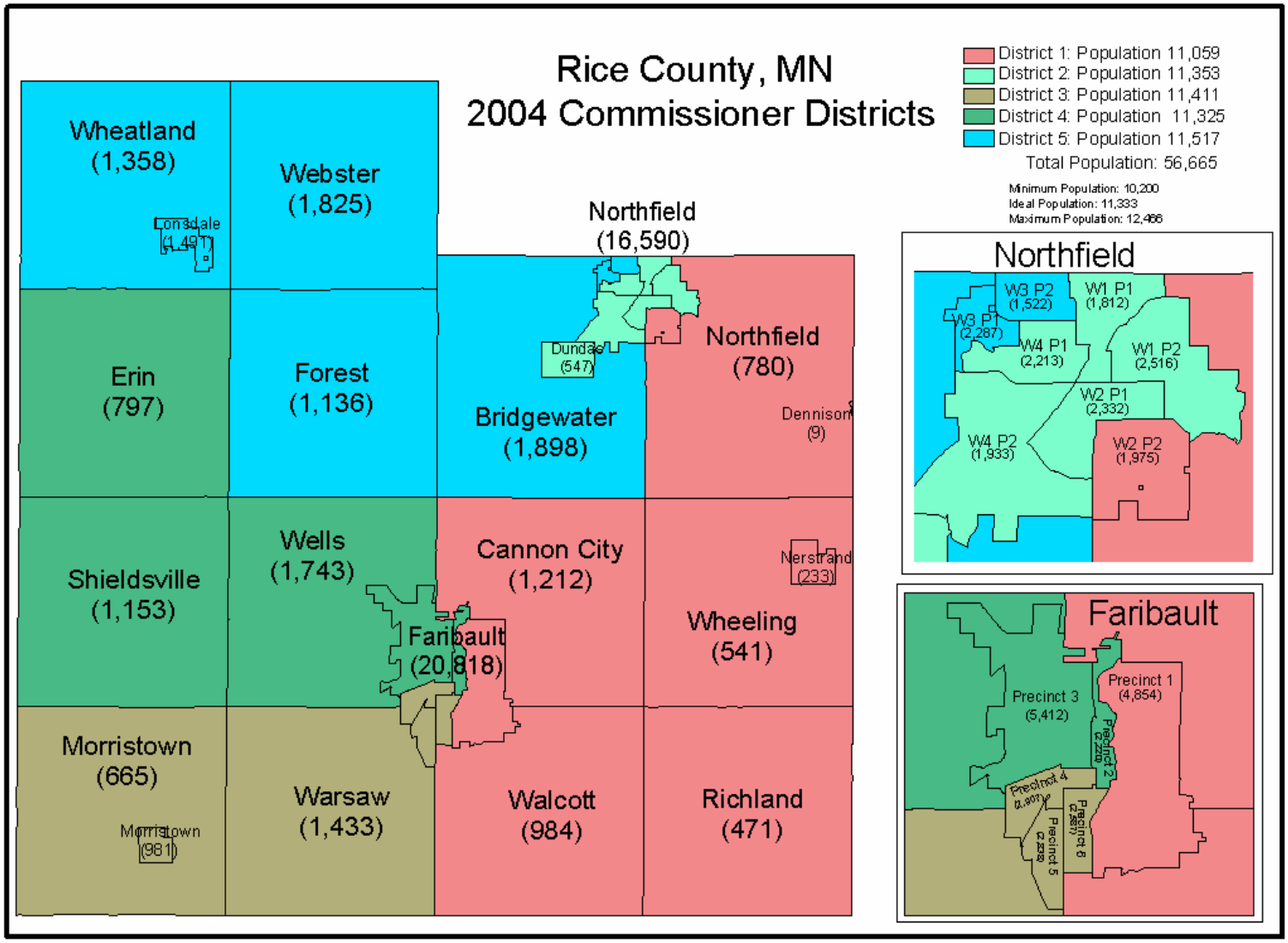
Redistricting

- Started in 2001
- Educational Workshop
- Redistricting with ArcView GIS Extension
- Plan Adopted 2002
- Planned Challenged in Court
- New Plan Adopted 2004

Redistricting



Redistricting



Planning and Zoning

Planning:

- Comprehensive Plan
- Environmental Planning
  - Water Plan
  - Feedlots

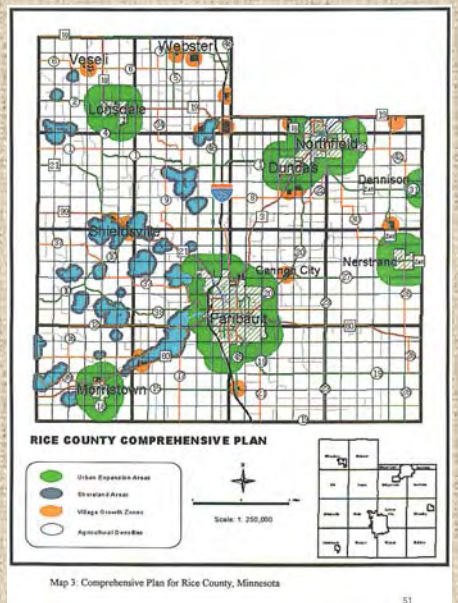
Planning Commission

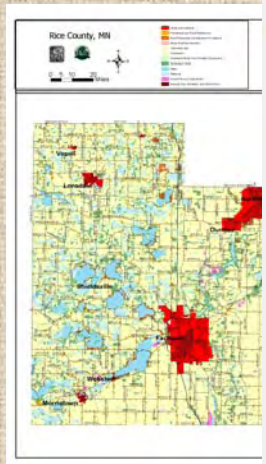
- Prior to GIS- Videotaped Sites
- Create GIS Maps and Presentation
- Board Members receive packets with Maps
- Setbacks, Landscape
- Environmental Issues
- Group Septic with Maintenance Schedule
- Group Wells

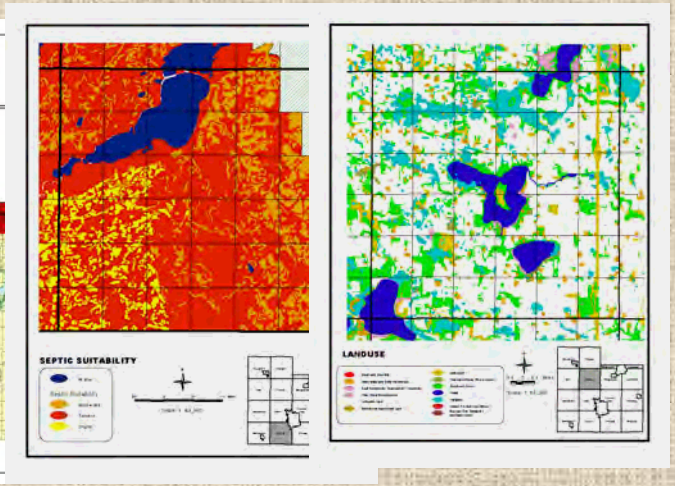
Comprehensive Plan

- ✓ Education
- ✓ Maps For General Information
- ✓ Maps For Future Land Use
- ✓ Maps of Current Land Use
- ✓ View on the County Website

www.co.rice.mn.us

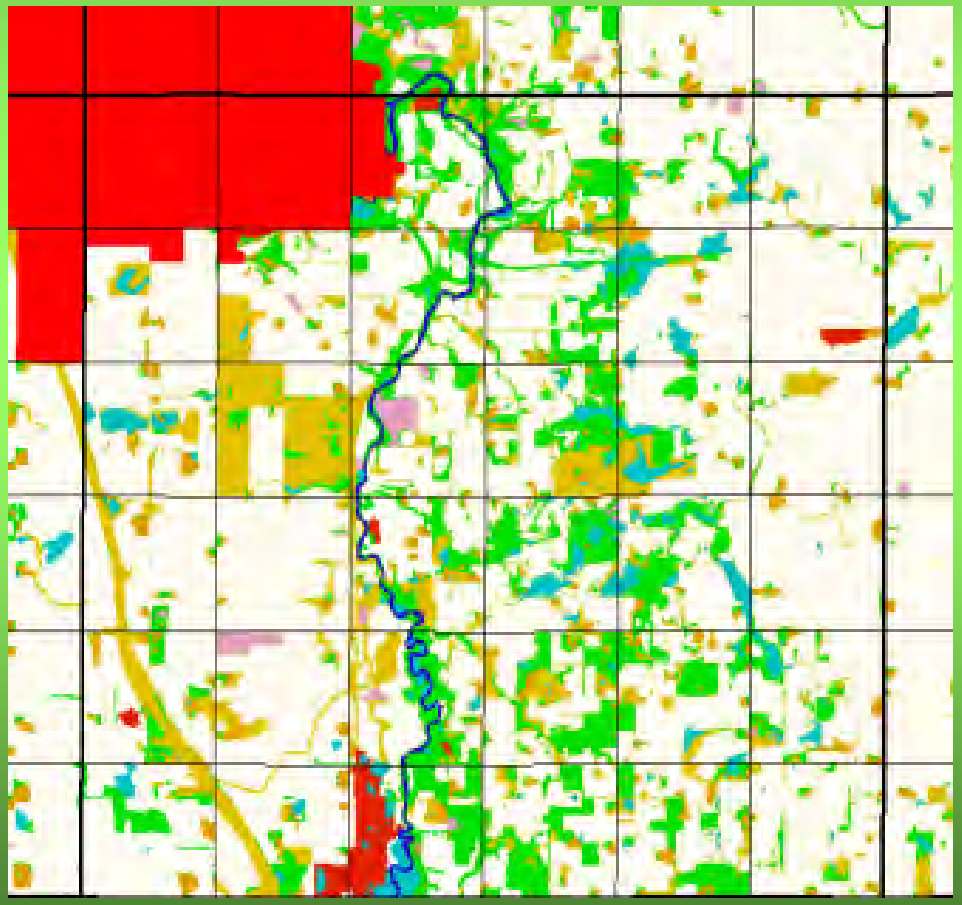




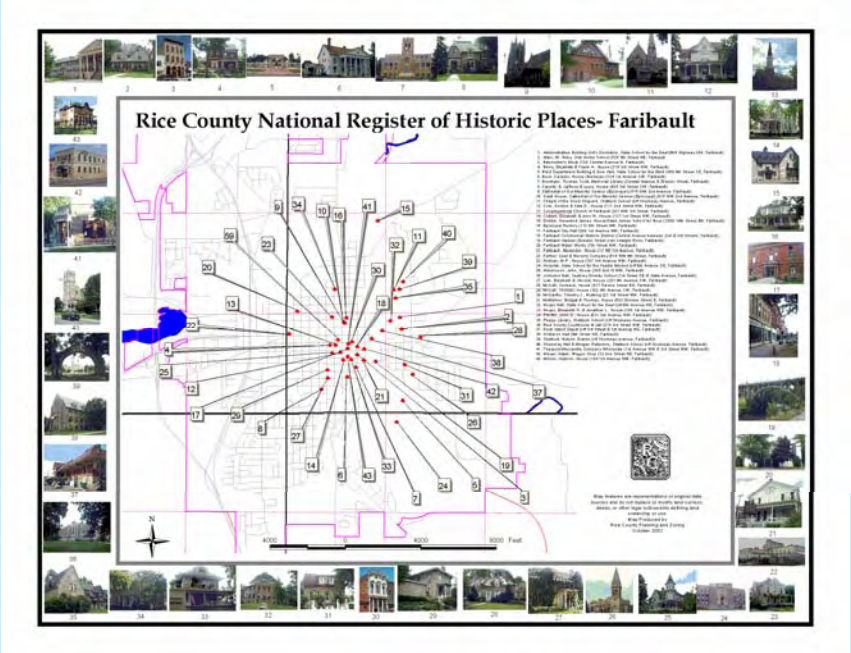


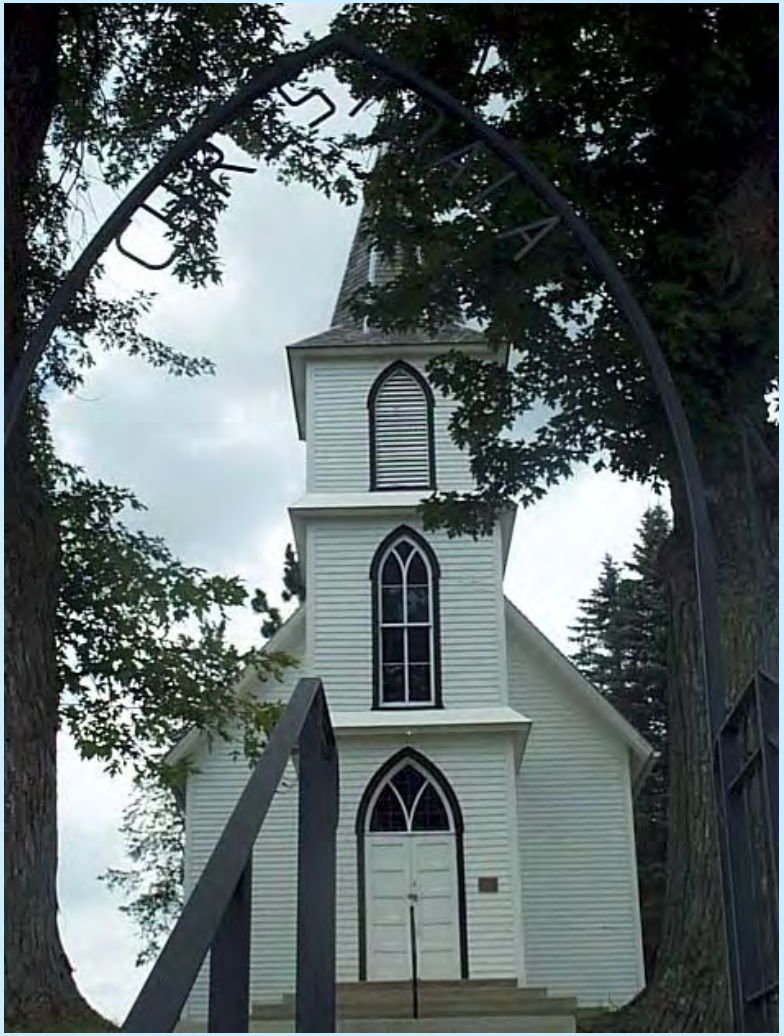
Comprehensive Plan

- Cell Towers
- Commissioner Districts
- School Districts
- Emergency Districts
- Airports
- Parks
- Land Use
- Historic Places



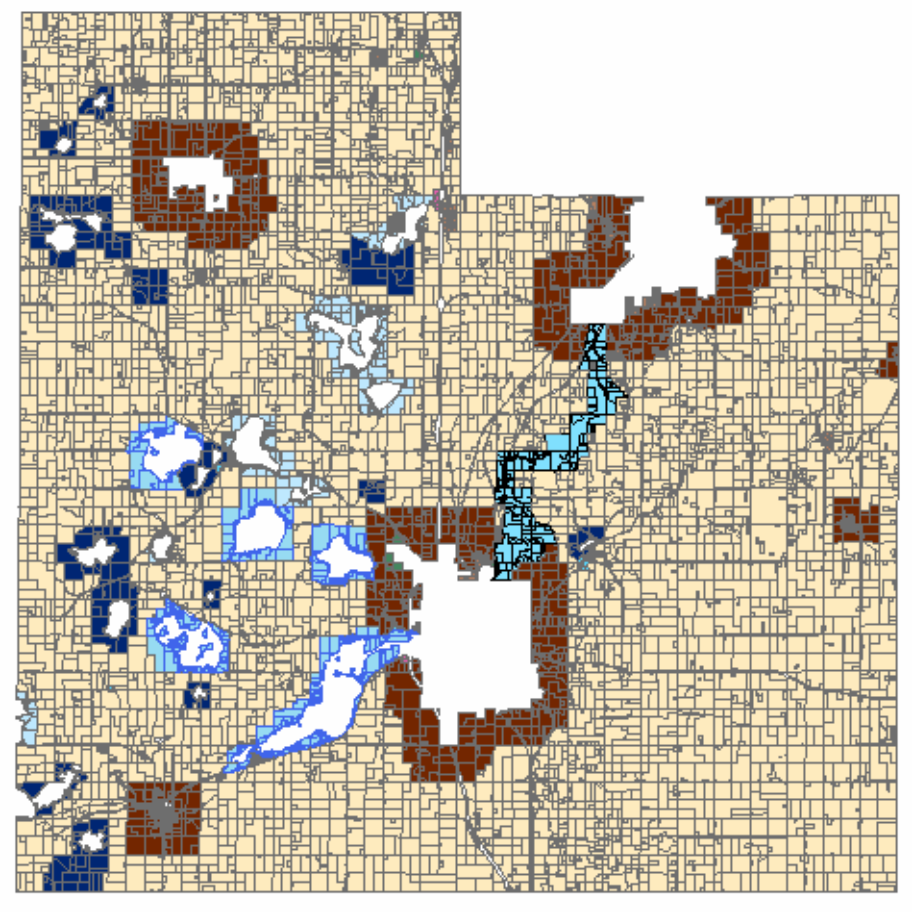
Historic Places





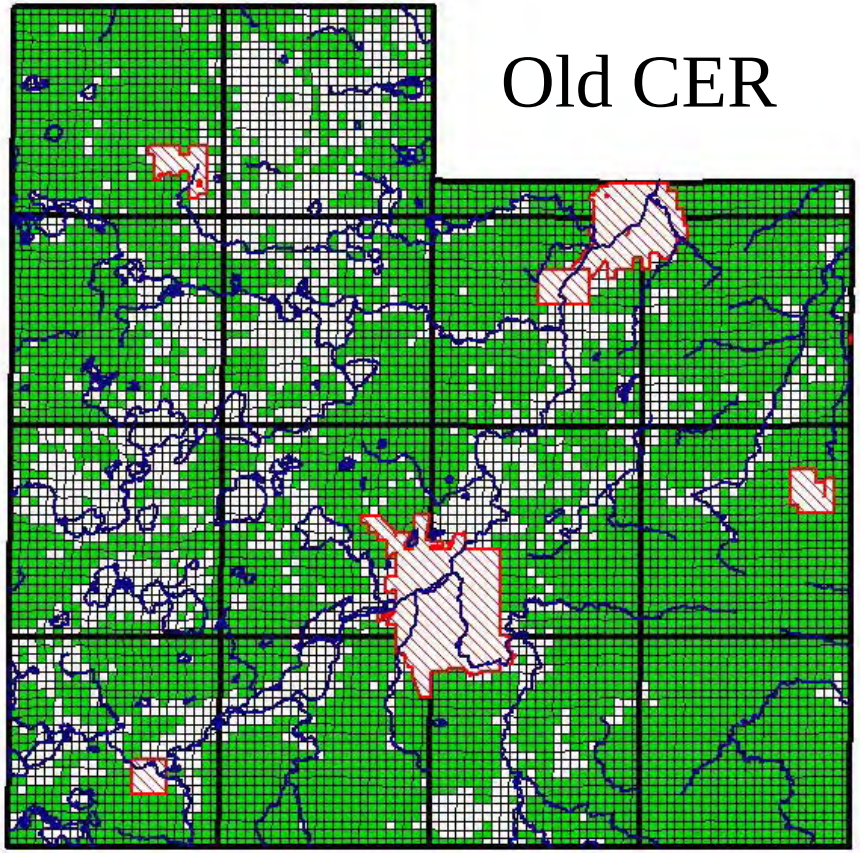
Zoning

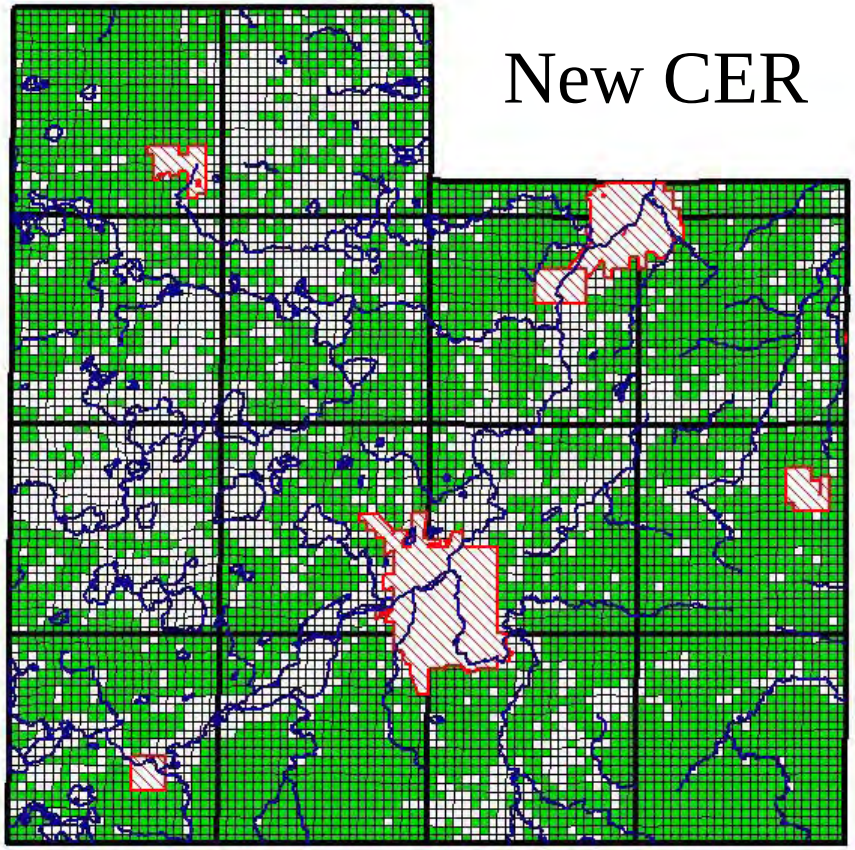
- Meetings
  - Planning Commission
  - Board of Adjustment
  - Board of Commissioners
- General Public/Permits
- Parcels
- Setbacks
- Map of Property
- Neighbor Notices



Crop Equivalency Ratings (CER)

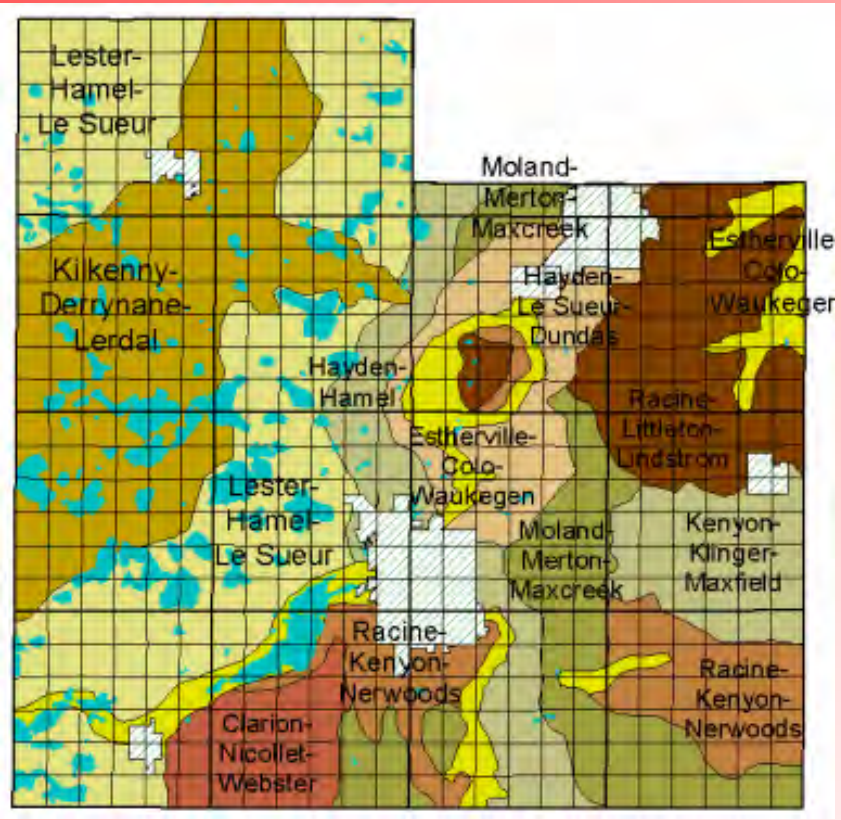
- Used to figure out number of building sites
- CER on counter computer
- Calculated new CER's based on 1999 soils data

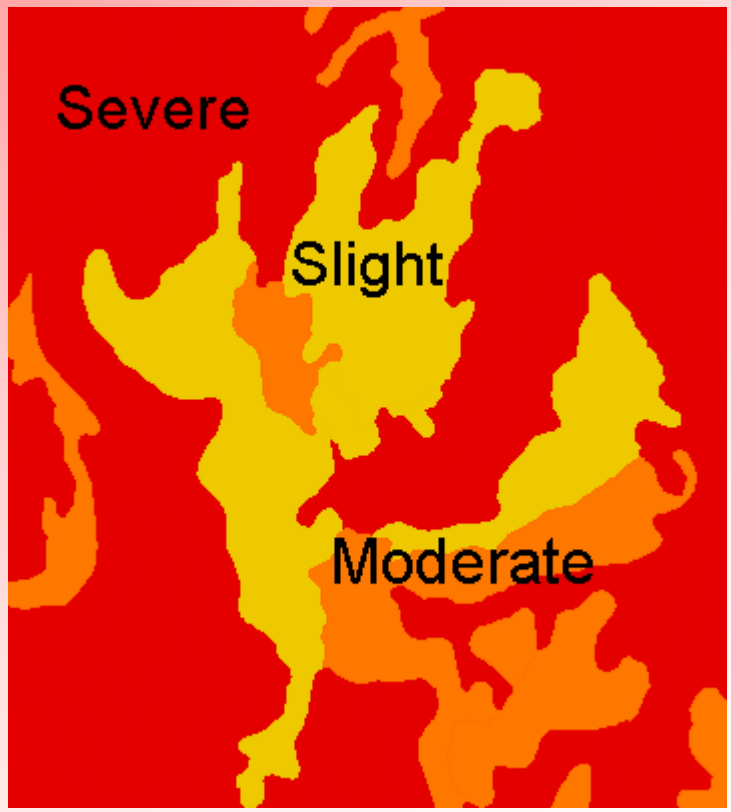




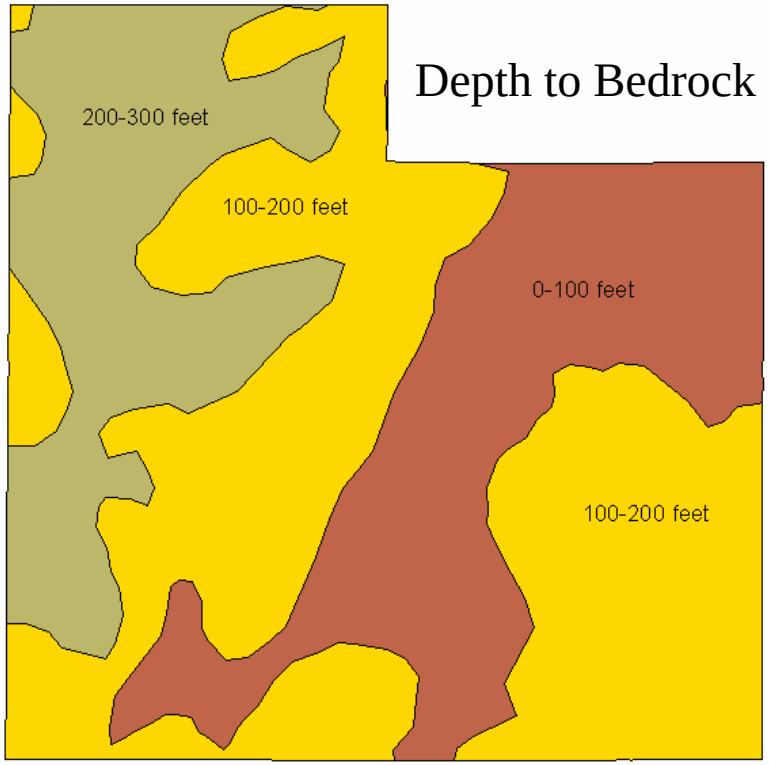
Environmental Health

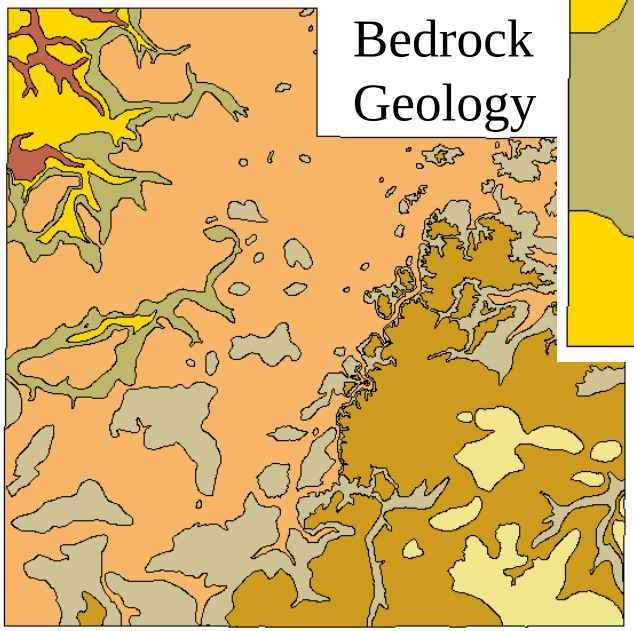
- Check Soils
- Septic Suitability

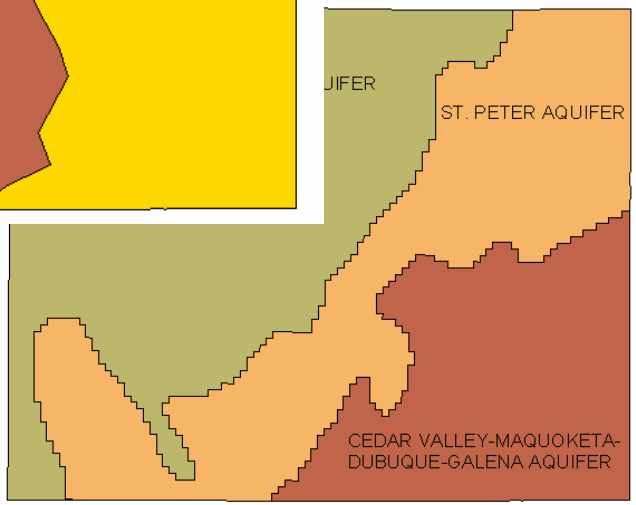




Environmental Planning

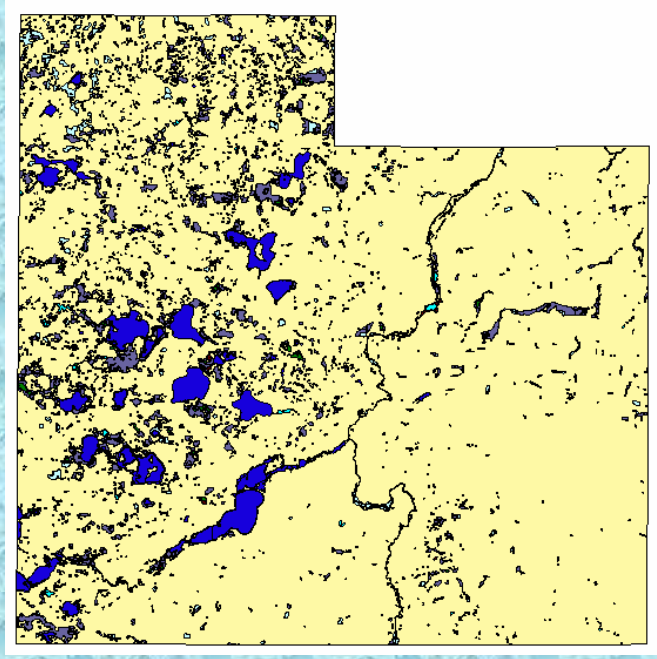




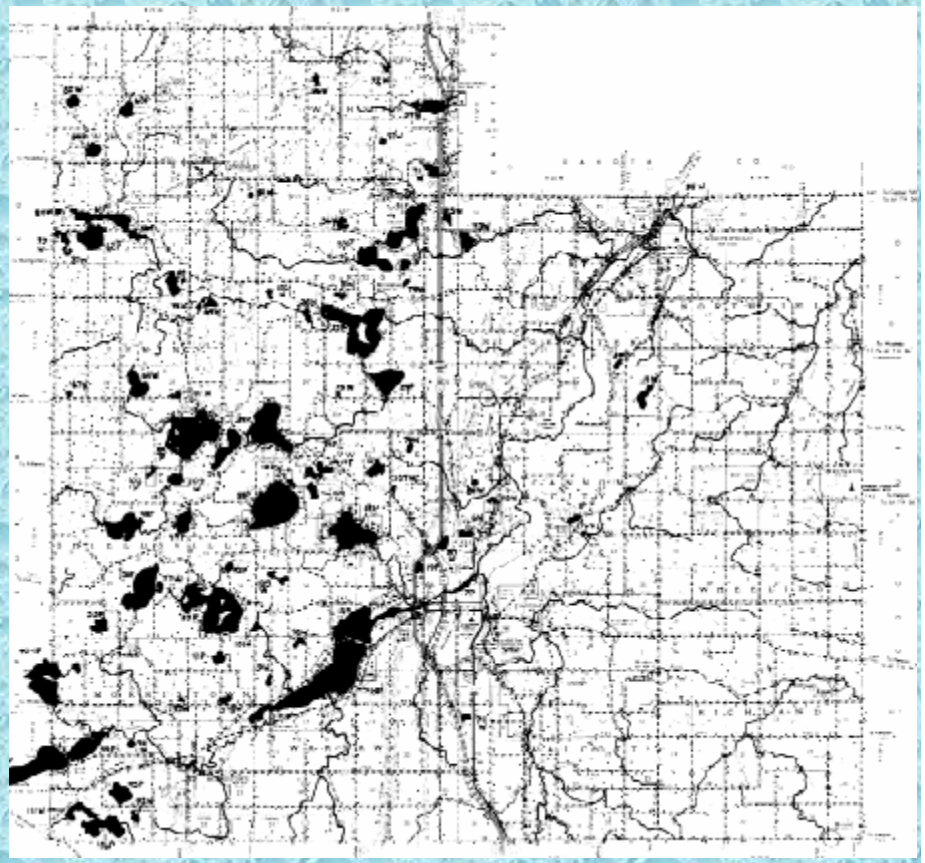


Water Planning

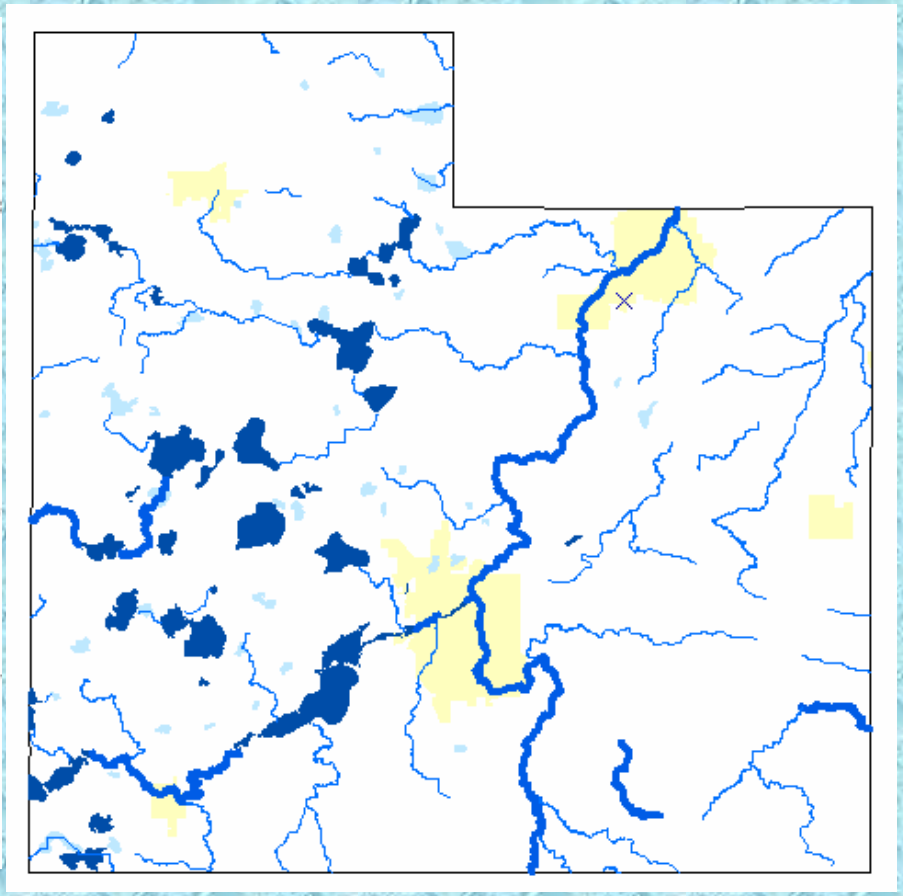
- General Mapping
- Lake Management Plan
- Project Areas
- Protected Waters
- National Wetlands Inventory
- Watersheds
- Geologic Atlas
- Ditches
- Wells
- Aquifers



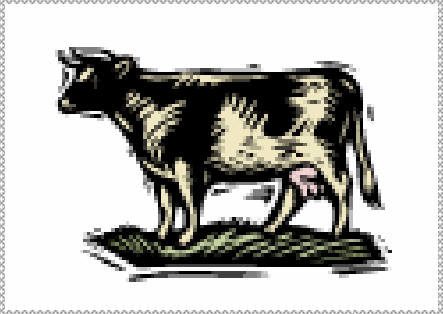
Protected Waters



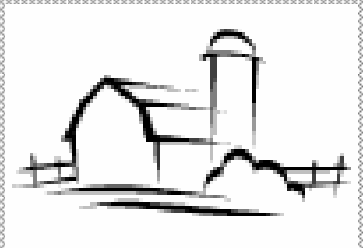
DNR Map

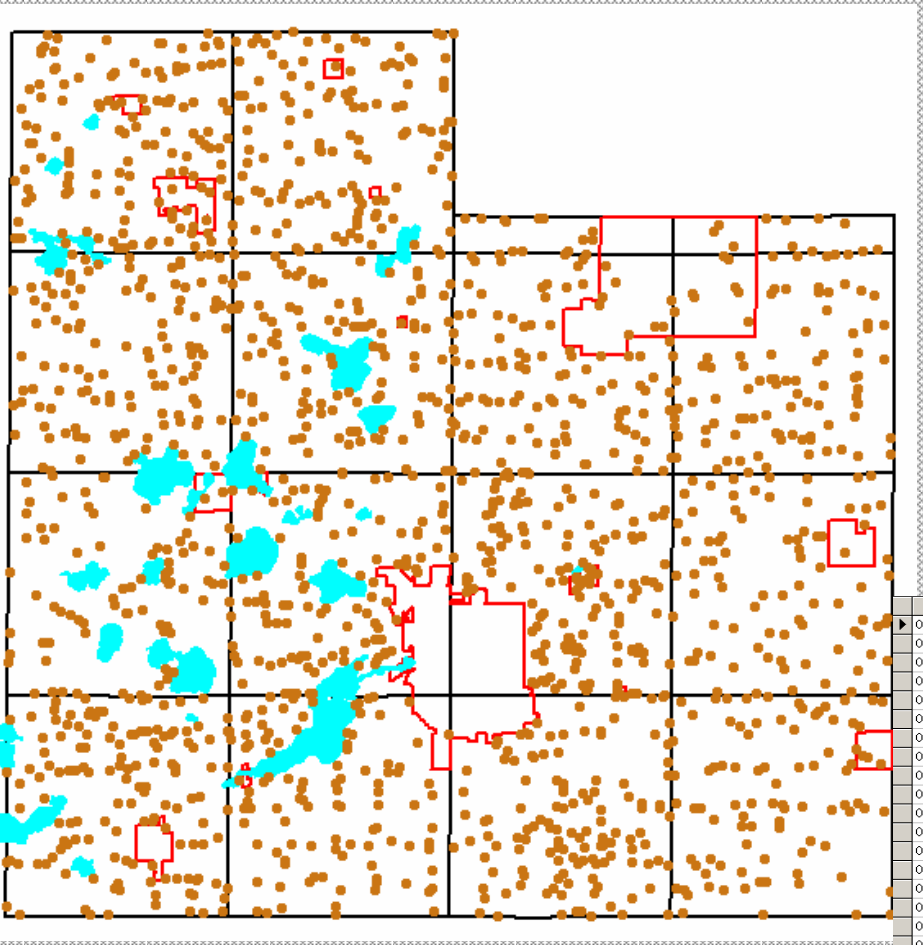


Rice County Map



Feedlots

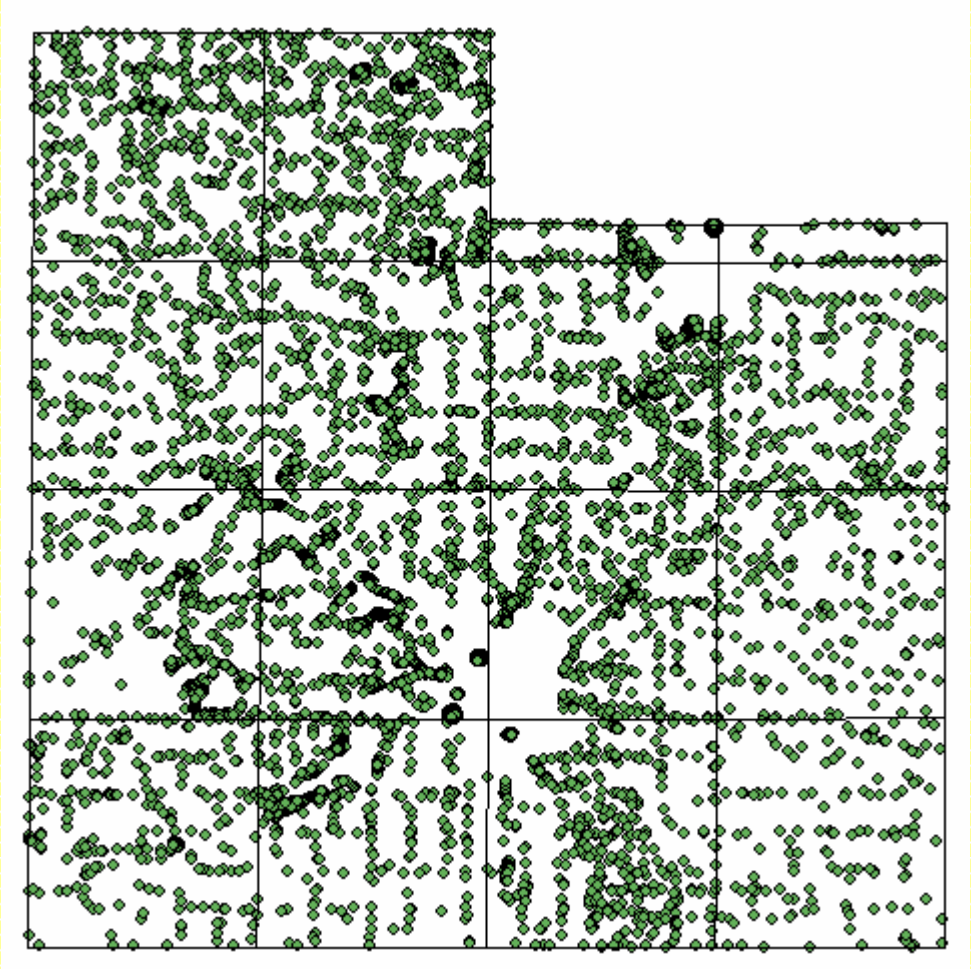




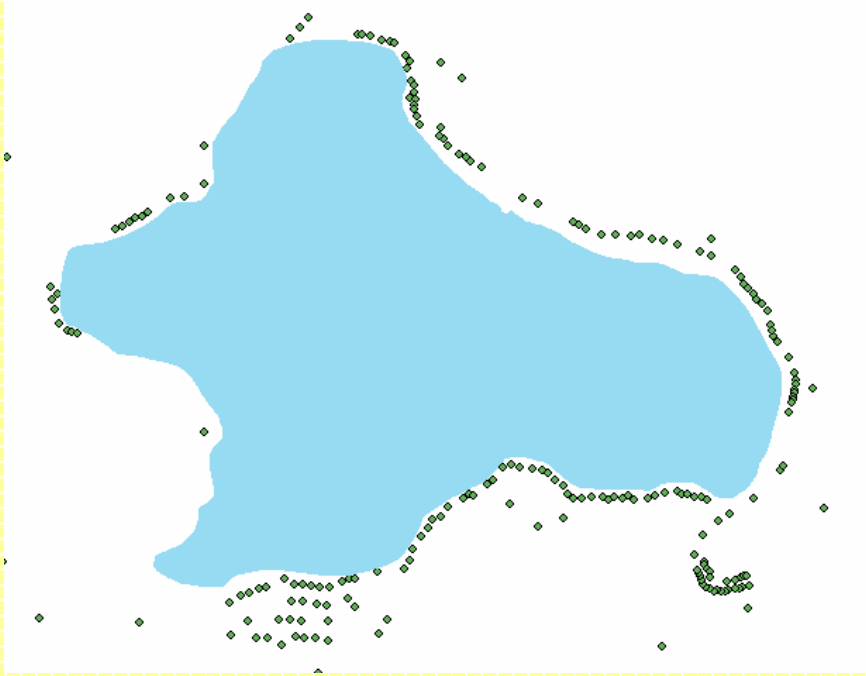
- Location
- Maintain Database for the State
- Distance From Water
- Animal Units
- Feedlot Educator-
  Open Lot Agreement

Map Number	Last Name	First Name	Township	Section #	Address	City	State	Zip Cod	Phone #	Registrat
01-01-00-00-001	Schmitz	James	Wheatland	1	7685 30th St. West	Webster	MN	55088	507-744-2691	yes
01-01-00-00-003	Sticha	Richard	Wheatland	1	3331 Glencoe Tr.	Elko	MN	55020	507-652-2660	no
01-01-00-00-003.5	Spinler-Sticha	Kathleen	Wheatland	1	3305 Glencoe Trail	Elko	MN	55020	612-653-2132	yes
01-01-00-00-005	Lexa	Arthur	Wheatland	1	7265 W. 40th St.	Webster	MN	55088	507-652-2667	no
01-01-00-00-006	Vesely	Raymond	Wheatland	1	7615 40th St. West	Webster	MN	55088	507-744-2189	yes
01-01-00-00-007	Farley	Joseph	Wheatland	1	7875 40th S. W	Webster	MN	55088	507-744-2887	yes
01-01-00-00-009.5	Tupy	Steven	Wheatland	1	3431 Halstad Ave.	Webster	MN	55088	507-744-5107	yes
01-02-00-00-003	Sirek	Ellie	Wheatland	2	8405 30th St. W	Elko	MN	55020	507-744-2203	yes
01-02-00-00-006	Kuenzel	Jan	Wheatland	2	8265 40th St. W	Webster	MN	55088	507-332-0882	yes
01-02-00-00-007.5	Wobbe	Joseph	Wheatland	2	8545 40th St. W	Webster	MN	55088	507-744-2496	yes
01-02-00-00-010	Ramm	Donald	Wheatland	2	3325 Independence A	Webster	MN	55088	507-744-5108	no
01-03-00-00-001.501	Bierle	Richard	Wheatland	3	3062 Jackson Ave.	Webster	MN	55088	952-758-2972	yes
01-03-00-00-003.501	Cervenka	Bernard	Wheatland	3	3280 Independence A	Webster	MN	55088	507-744-2210	yes
01-03-00-00-009.507	Livingston	Michael	Wheatland	3	9689 40th St. W	Webster	MN	55088	507-744-5258	yes
01-04-00-00-002	Bartusek	Ben and Mark	Wheatland	4	10480 New Prague E	New Prague	MN	56071	952-758-5020	yes
01-04-00-00-007	Franek	Ken	Wheatland	4	3673 Kanabec Ave.	New Prague	MN	56071	507-744-2483	yes
01-05-00-00-001	Larson	Robert	Wheatland	5	18301 Victoria Road	Prior Lake	MN	55372	612-758-2640	
01-05-00-00-006	Kes	Kenneth	Wheatland	5	3547 Lake Ave.	New Praque	MN	56071	612-758-3578	yes
01-05-00-00-007.5	Jew	Frederick	Wheatland	5	3900 Lake Ave.	New Prague	MN	56071	612-758-7092	yes
01-06-00-00-004	Dille	Ken	Wheatland	6	12150 Lake Ave.	New Prague	MN	56071	612-447-6126	yes

Building



House Locations

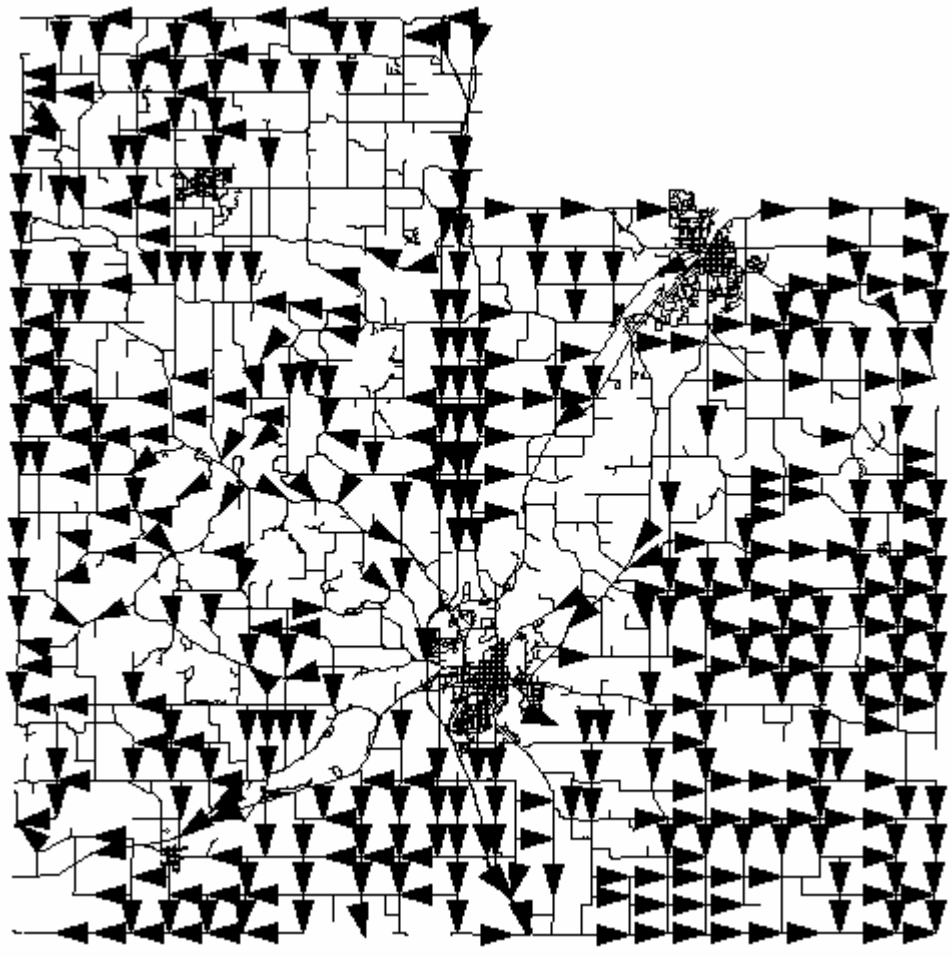


General Information

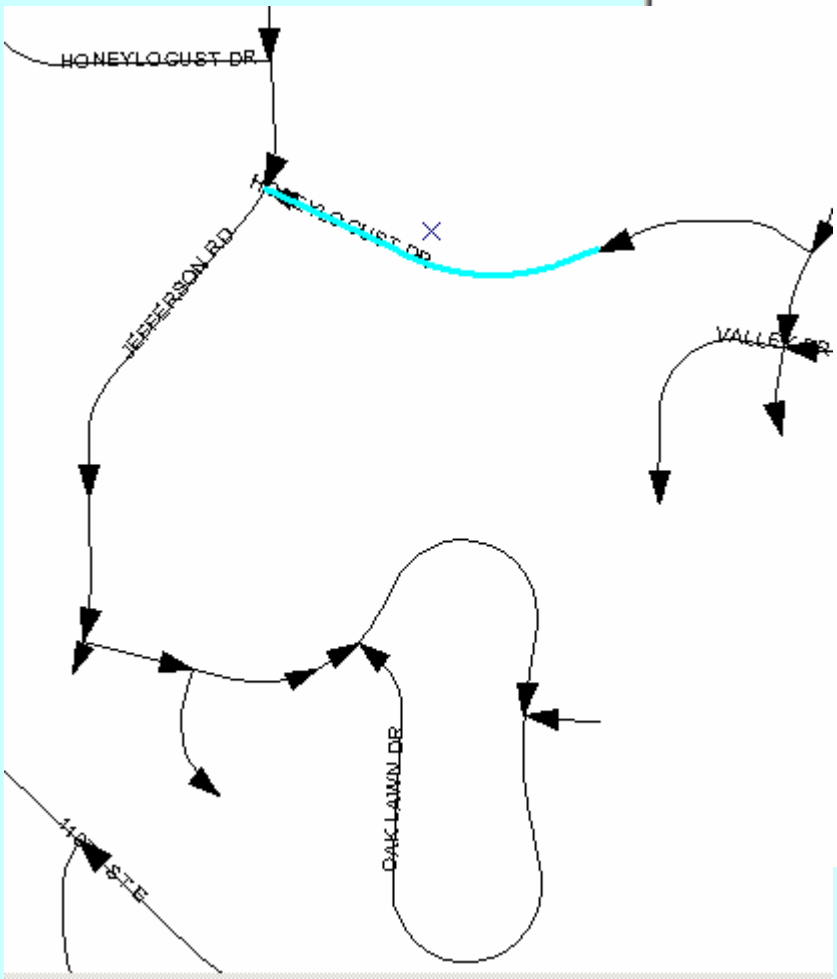
- Check House Location
- Find out Parcel or Map Number
- Quick Maps
- Public Information
- Good for Non-GIS users

E-911 Roads

- Created using 1999
  Aerial Photography, Plats, Tax Database Information, Post Office- Carrier Route Report, Book with Streets and Ranges
- Created before Faribault and Northfield Parcels
- Many Questionable Areas- Lakes, Cities
- Update Daily
- Data Used by the 911 Dispatchers to Pinpoint Locations



E-911 Roads

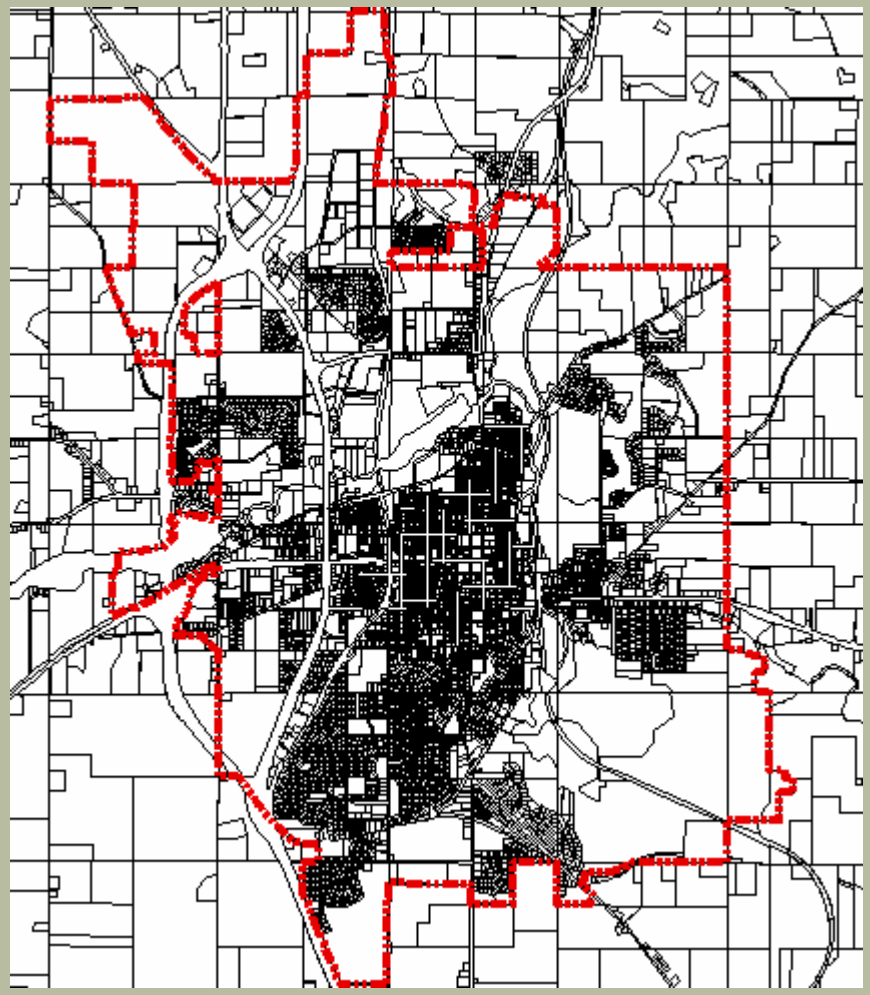


Attributes

- Roads
  - HONEYLOCUST

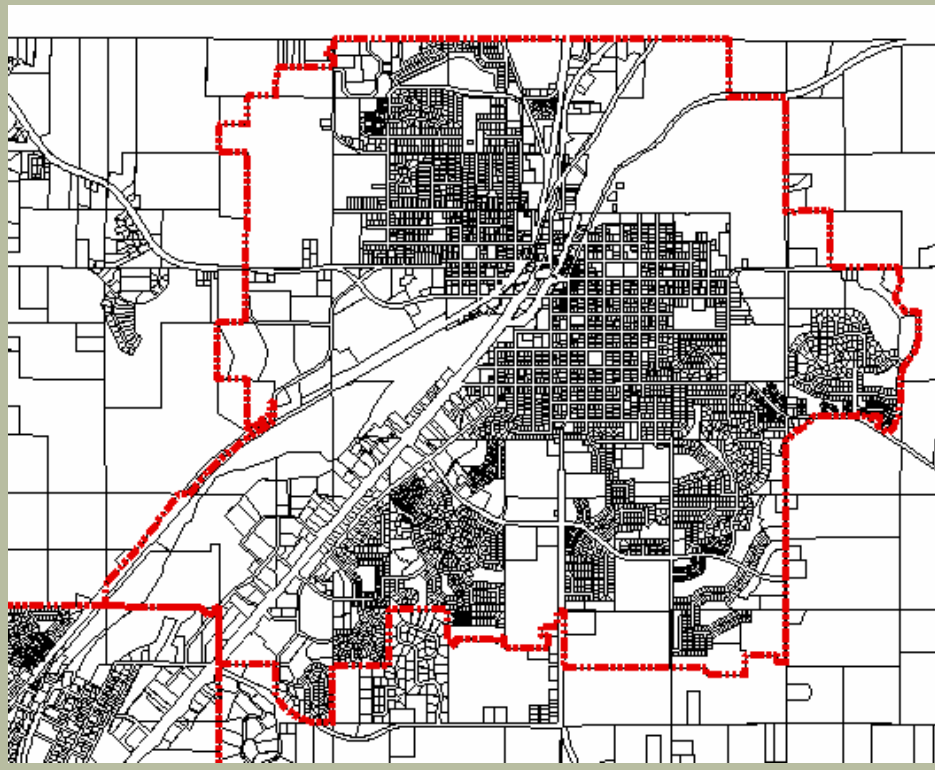
Property	Value
OBJECTID	5102
PRE_DIR	<Null>
PRE_TYPE	<Null>
ST_NAME	HONEYLOCUST
ST_TYPE	DR
SUF_DIR	<Null>
ZIPL	55057
ZIPR	55057
LCITY	Northfield
RCITY	Northfield
LEFTCROSS	Jefferson Road
RIGHTCROSS	Jefferson Road
LADD_FR	1400
LADD_TO	1498
RADD_FR	1401
RADD_TO	1499
RD_TYPE	CITY ROAD
SHAPE_LENG	<Null>
RD_NUMBER	<Null>
SURFACE	PAVED
COMMENTS	
Shape_Length	877.699
Method	COGO-PLAT
Full_Name	HONEYLOCUST DR

Faribault and Northfield Data



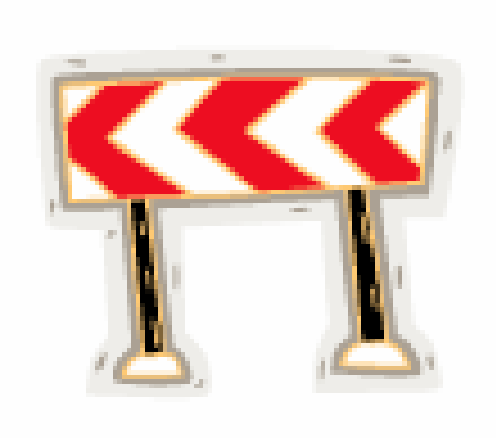
Faribault: 7,472 parcels

25,592 Parcels in Rice County

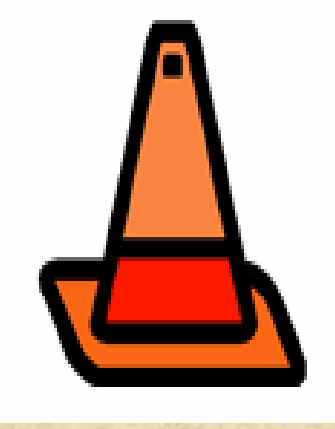


Northfield: 4,958 parcels

What Were Some Roadblocks?



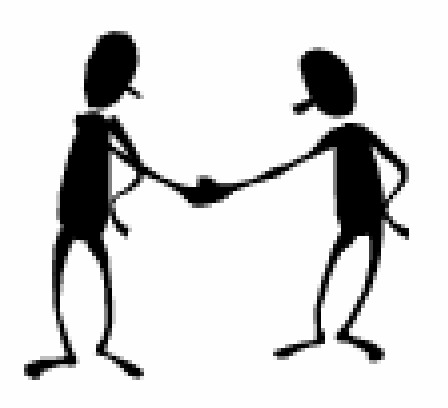
-Staff Turnover
- Time
- Money



How Do We Share?

With in the County:

- Network
- Internet
- Add new data upon request



With Other Agencies:

- CD’s
- E-mail
- FTP (Northfield and Faribault)

What About The Future?

- New Permanent Parcel Number
- More Applications and Analysis
- Create More Data (floodplains, …)
- Contours
- More Education

Pricing

- Maps: Cost- Generally $5 to $20
- Digital GIS Data- $35/Data Layer
- Orthophotography-
  - Whole County 1999, Mr. SID format, MN County Coordinate System, Rice County, feet: $1,000
  - CD, 6 Sections, GeoTif Format, State Plane, feet: $25