

Douglas County
Wisconsin
Statewide Parcel
Initiative Report
2021

December 13, 2021



WI Statewide Parcel Initiative



WISCONSIN DEPARTMENT OF
ADMINISTRATION

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Act 20 and the Wisconsin Land Information Program

Act 20, the biennial state budget for state fiscal years 2014 and 2015, has wide-ranging implications for the Wisconsin Land Information Program (WLIP). Changes to the WLIP generated by Act 20 fall under five broad categories:

- Initiative to Create a Statewide Digital Parcel Map
- Increase in Base Budget and Training & Education Grant Eligibility
- Increase in Land Information Fund Revenue
- Update Frequency for County Land Information Plans
- Penalties and Deadlines

Some of these changes, such as increased grant eligibility, take effect in the near term, while other measures, such as an increase in Land Information Fund revenue, will be implemented over the course of the next few years.

One of the most novel provisions of Act 20 affecting the WLIP is the directive for DOA to create an implementation plan for a statewide digital parcel map, which will be a collaborative effort with local governments. A complete, accurate, and continuously maintained digital parcel map would protect and grow Wisconsin's \$460 billion in taxable real estate assets, improve governmental services, and enhance the state's economic competitiveness.

Initiative to Create a Statewide Digital Parcel Map

Section 186.¹ Act 20 directs DOA to create an implementation plan for a statewide parcel map and directs counties to coordinate their digital parcel mapping with the state. The implementation planning process will define the end product envisioned for a five-year process of statewide digital parcel map development—a geographic information system (GIS) that meets end users' business needs, whether at the state or local levels of government, as well as those of the private sector.

¹ SECTION 186. 16.967 (3) (h) of the statutes is created to read:

16.967 (3) (h) Establish an implementation plan for a statewide digital parcel map.

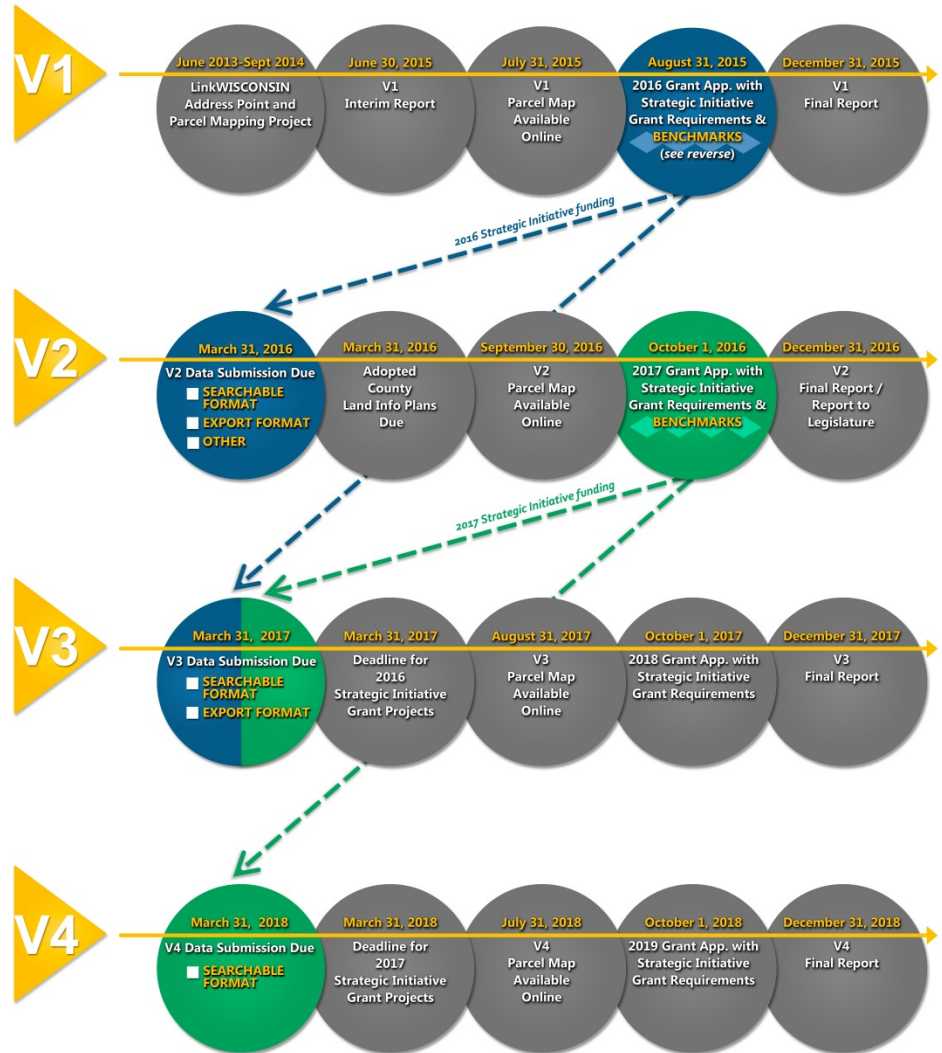
SECTION 186k. 16.967 (7) (a) 2m. of the statutes is created to read:

16.967 (7) (a) 2m. In coordination with the department, the creation, maintenance, or updating of a digital parcel map.

Benchmarks

WI Statewide Parcel
Initiative
Now at V7


Statewide Parcel Map Initiative Timeline



Benchmarks

WI Statewide Parcel Initiative

BENCHMARKS OVERVIEW

V1 2015	 Parcel and Zoning Data Submission
	<ul style="list-style-type: none"> ✓ No standards ✓ Submit county-wide digital parcel data with "Act 20" attributes as-is ✓ Submit parcel geometries ✓ Submit county-maintained zoning data

V2 2016	Benchmark 1 Parcel and Zoning Data Submission	Benchmark 2 Extended Parcel Attribute Set Submission	Benchmark 3 Completion of County Parcel Fabric	Benchmark 4 Completion and Integration of PLSS
	EXPORT FORMAT	 <ul style="list-style-type: none"> ✓ Submit county-wide digital parcel data with complete "Act 20" attributes ✓ Submit parcel geometries ✓ Submit identifying information for condo geometries ✓ Submit county-maintained zoning data ✓ Fill out and provide the Submission Form crosswalk ✓ All attribute data submitted in one single table 	 <ul style="list-style-type: none"> ✓ Submit county-wide digital parcel data with extended parcel attribute set ✓ Submit parsed address components with optional technical assistance available 	<ul style="list-style-type: none"> ✓ Complete digitization of parcels for all missing areas within the county ✓ Submit plan detailing current parcel status and future goals, timeline, and budget
SEARCHABLE FORMAT	 <ul style="list-style-type: none"> ✓ Submit county-wide digital parcel data with complete "Act 20" attributes in the searchable format, with standardized field names and standardized domains 	 <ul style="list-style-type: none"> ✓ Submit county-wide digital parcel data with extended parcel attribute set in the searchable format, with standardized field names and standardized domains 		

V3 2017	Benchmark 1 Parcel and Zoning Data Submission	Benchmark 2 Extended Parcel Attribute Set	Benchmark 3 Completion of County Parcel Fabric	Benchmark 4 Completion and Integration of PLSS
	SEARCHABLE FORMAT	<ul style="list-style-type: none"> ✓ Submit county-wide digital parcel data with complete "Act 20" attributes in the searchable format, with standardized field names and standardized domains 	<ul style="list-style-type: none"> ✓ Submit county-wide digital parcel data with extended parcel attribute set in the searchable format, with standardized field names and standardized domains 	<ul style="list-style-type: none"> ✓ The same or similar to 2016 Benchmark 3

Benchmarks

WI Statewide Parcel Initiative

Benchmarks



Summary of benchmarks from V1 Interim Report and V1 Interim Report Appendices

V7 submittal on
March 31, 2020

WI Statewide Parcel Initiative

ACTION REQUIRED TO MEET STATEWIDE SCHEMA

PARCEL FEATURE CLASS WITH TAX ROLL DATA

✓ PARCELID	
✓ TAXPARCELID	
✓ PARCELDATE	
✓ TAXROLLYEAR	
♦ OWNERNME1	• OWNERNME1: See comment below in AUXCLASS regarding owner names for government-owned tax exempt lands.
♦ OWNERNME2	
* PSTLADDRESS	• PSTLADDRESS: Approximately 4 records with partial mailing address values containing only city, state, and zip—such as ‘ SUPERIOR, WI 54880.’ Mailing address values should not be incomplete. Clean these records by entering a complete mailing address in the PSTLADDRESS field, or enter ‘Null’ for parcels without a ‘complete’ mailing address.
✓ SITEADDRESS	
✓ ADDNUMPREFIX	
✓ ADDNUM	
✓ ADDNUMSUFFIX	
✓ PREFIX – with standardized domains	
✓ STREETNAME	
✓ STREETTYPE – with standardized domains	
✓ SUFFIX – with standardized domains	
✓ LANDMARKNAME	
✓ UNITTYPE	
✓ UNITID	
✓ PLACENAME	
✓ ZIPCODE	
✓ ZIP4	
✓ STATE	
✓ SCHOOLDIST – with standardized domains	
✓ SCHOOLDISTNO – with standardized domains	
✓ CNTASSDVALUE	
✓ LNDVALUE	
✓ IMPVALUE	
✓ MFLVALUE	
✓ ESTFMKVALUE	
✓ NETPRPTA	
✓ GRSRPTA	
* PROPCLASS – with standardized domains	• PROPCLASS: Some records with PROPCLASS = 3 (Manufacturing) were either ‘0’ or missing values in the tax roll-specific fields, such as CNTASSDVALUE, IMPVALUE, and LANDVALUE. These values seem to indicate a problem with the data export. This could be because the county populated these attributes with the 2021 work roll values instead of the 2020 ‘final tax roll’ values, as the initial version of the GCS extract module was mistakenly programmed to do. Check your values in tax roll fields—perhaps with RPL—and ensure accuracy of values for future data submissions.
♦ AUXCLASS – with standardized domains	• AUXCLASS: Per schema specs, for publicly owned parcels (AUXCLASS = X1-X4), the same owner should be designated the same way if they own multiple parcels (e.g., not ‘STATE OF WISCONSIN (DEPARTMENT OF NATURAL RESOURCES)’; ‘WISCONSIN DEPARTMENT OF NATURAL RESOURCES’ and ‘STATE OF WISCONSIN DNR,’ which all occur in the county dataset). In other words, standardize owner names for public parcels to the extent possible/permissible by recording document policy.
✓ ASSDACRES	
✓ DEEDACRES	
✓ GISACRES	
✓ CONAME – with standardized domains	
✓ PARCELFIPS – with standardized domains	
✓ PARCELSRC – with standardized domains	
✓ –Projection met statewide schema	
✓ –County parcel fabric was complete (lacked gaps)	
✓ –Condo modeling met statewide schema	
OTHER LAYERS – PLSS	
✓ PLSS – PLSS corner data was submitted	
OTHER LAYERS – RML	
♦ Zoning: County general – with DESCRIPTION/LINK	• (Unchanged from previous year, not submitted)
♦ Zoning: Shoreland – with DESCRIPTION/LINK	• (Unchanged from previous year, not submitted)
♦ Zoning: Airport protection – with DESCRIPTION/LINK	• (Unchanged from previous year, not submitted)
✓ Other Layers – with standardized file names	
SUBMISSION FORM & PACKAGE	
✓ Provided .ini submission form + data	
MISCELLANEOUS	
<ul style="list-style-type: none"> • The comments provided in this V7 <i>Observation Report</i> describe deviations from the statewide schema that require your attention. In order for your county to meet the Searchable Format requirement listed under state statute 59.72(2)(a), you will need to make the corrections noted on this report—as well as the V1-V6 <i>Observation Reports</i>—and ensure that the datasets submitted in the future exactly match DOA’s schema specifications. • Feedback on the annual parcel data submission process is welcome to DOA/SCO at any time. • Thanks for your work to prepare your submission. You can read user testimonials in the forthcoming V7 <i>Final Report</i> and the V6 <i>Final Report</i>. There are a lot of happy end-users of the statewide parcel layer who appreciate your efforts to make the county’s data available in a standardized format! 	

WI Statewide Parcel Initiative

Benchmark 4 (V5) submittal on
March 28, 2018

Final V3 Submittal is due on March 13, 2019

Parcels
Zoning General
Shoreland
Floodplain

PLSS Corners
Roads
Addresses
Land Use
Trails
Boat Accesses
Parks
Buildings
Hydrography
ROW

Background Information on Parcels and Ownership Data

Parcel Editing Process

- Currently every 24 hours parcels Ownership is updated and replicated from GCS, Parcels are updated in groups of edits once every week

2021 = 6337 Edits

2020 – 7541 Edits

2019 – 6875 Edits

2018 – 3725 Edits

2017 – 24,574 Edits

2016 - ~15,000 Edits

2015 – 11,252 Edits

2014 – 4,570 Edits

2013 - 1,380 Edits

2012 – 581 Edits

GCS Ownership Changes

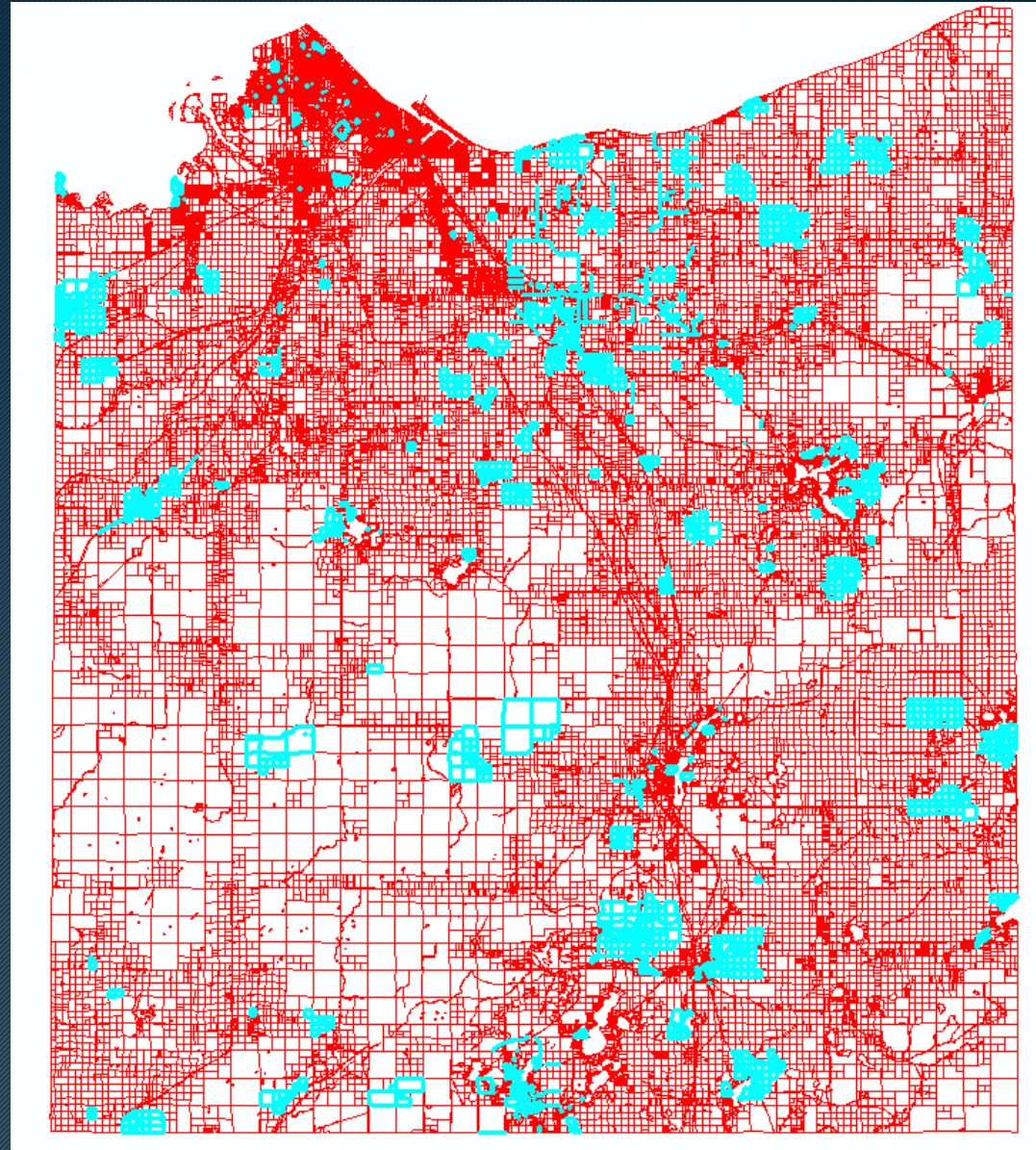
Currently editing daily (City/County Tax Listers)

- 2021 - ~ 6153 Edits
- 2020 - ~ 5896 Edits
- 2019 - ~ 12,000 Edits
- 2018 - ~ 15,000 Edits
- 2017 – ~ 22,000 Edits

GCS ownership data and parcels are the most critical data the City and County Maintain. It is used by all departments for Various purposes.

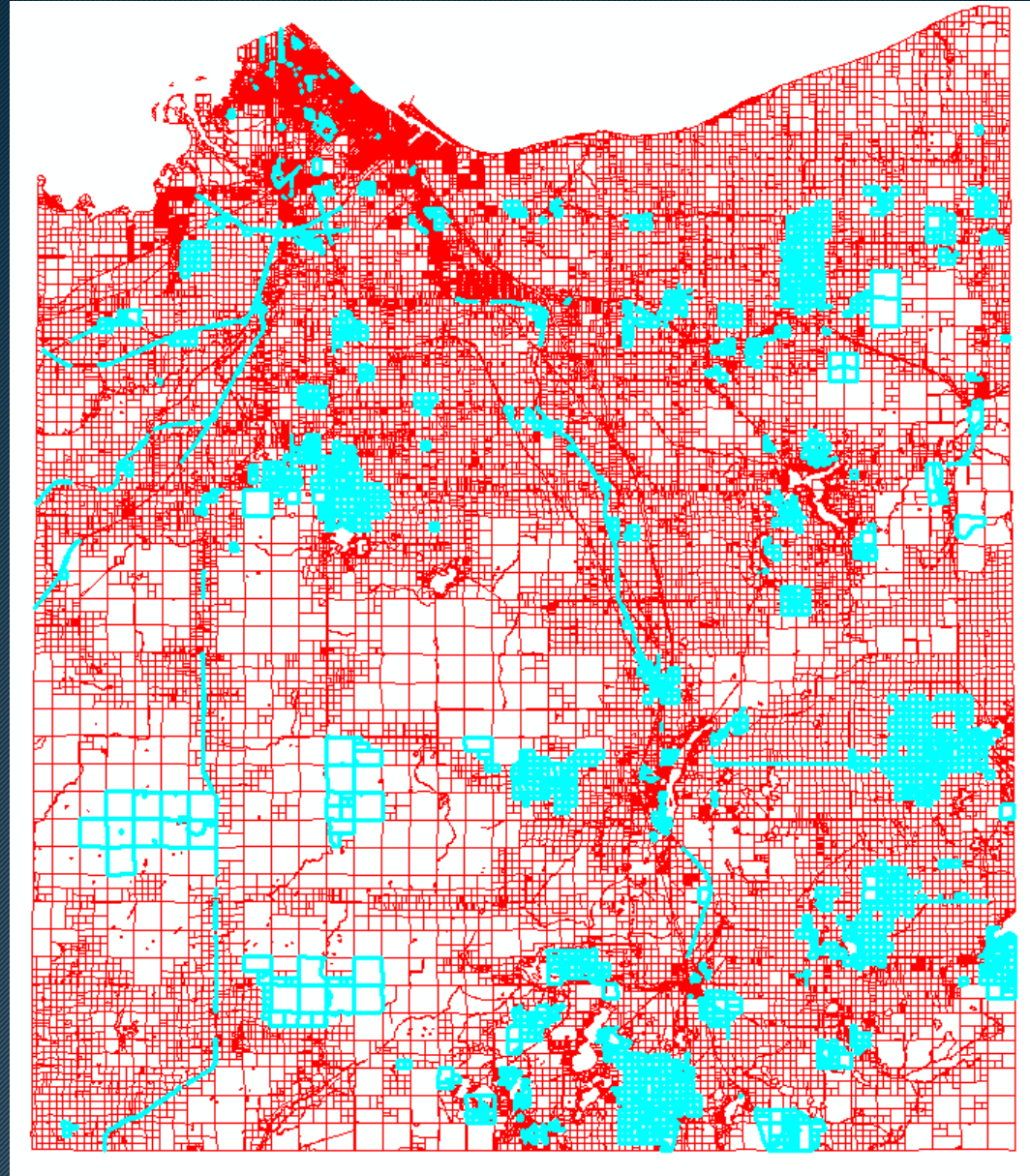
Parcels Edited 6337

Parcels Edited in
2021



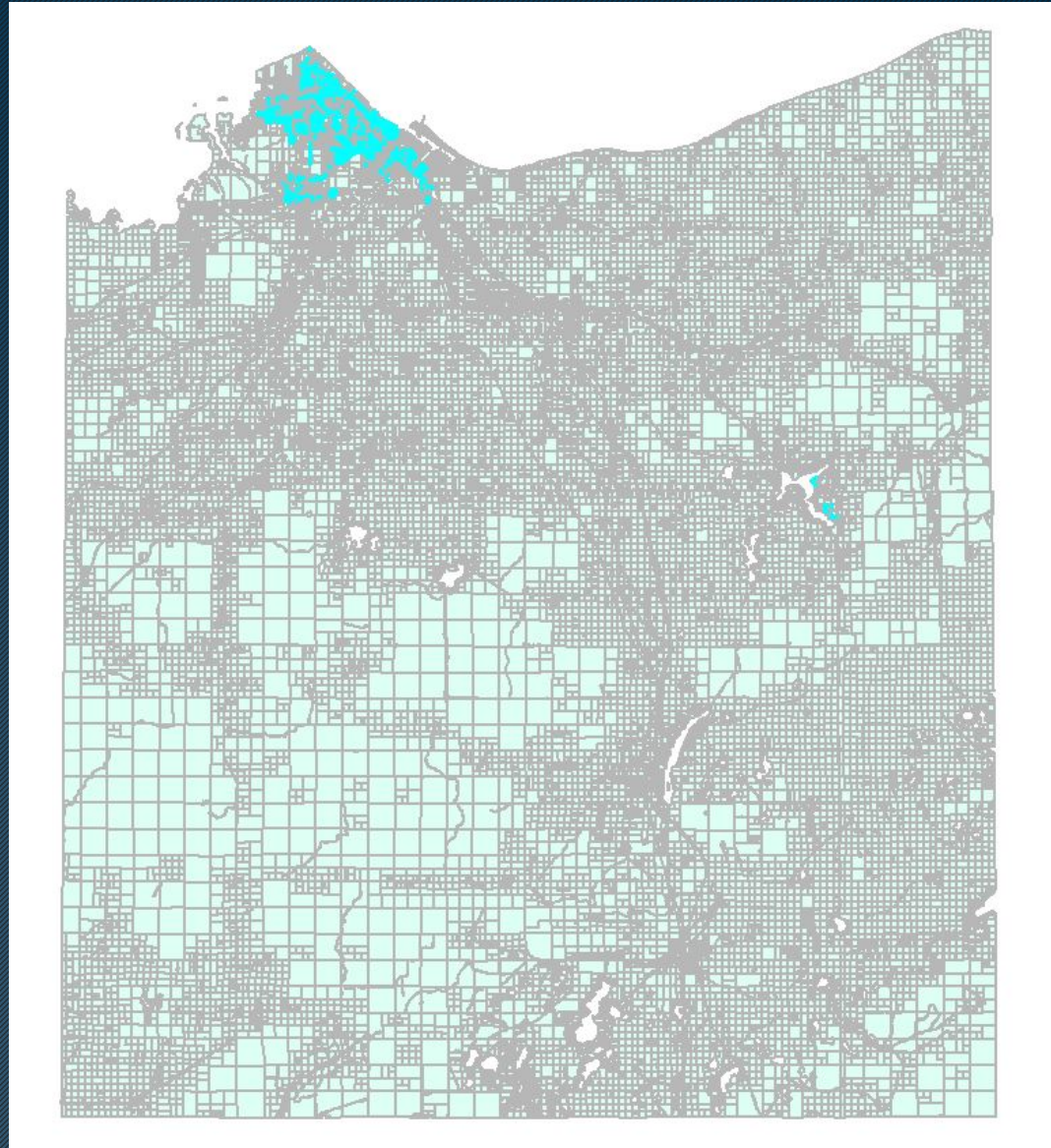
Parcels Edited 7541

Parcels Edited in
2020



2770 Vacated Streets & Alleys Documented In Fabric 2021

Vacated Streets and Alleys Documented



Vacated Streets and Alleys Documented

2016 = 2180

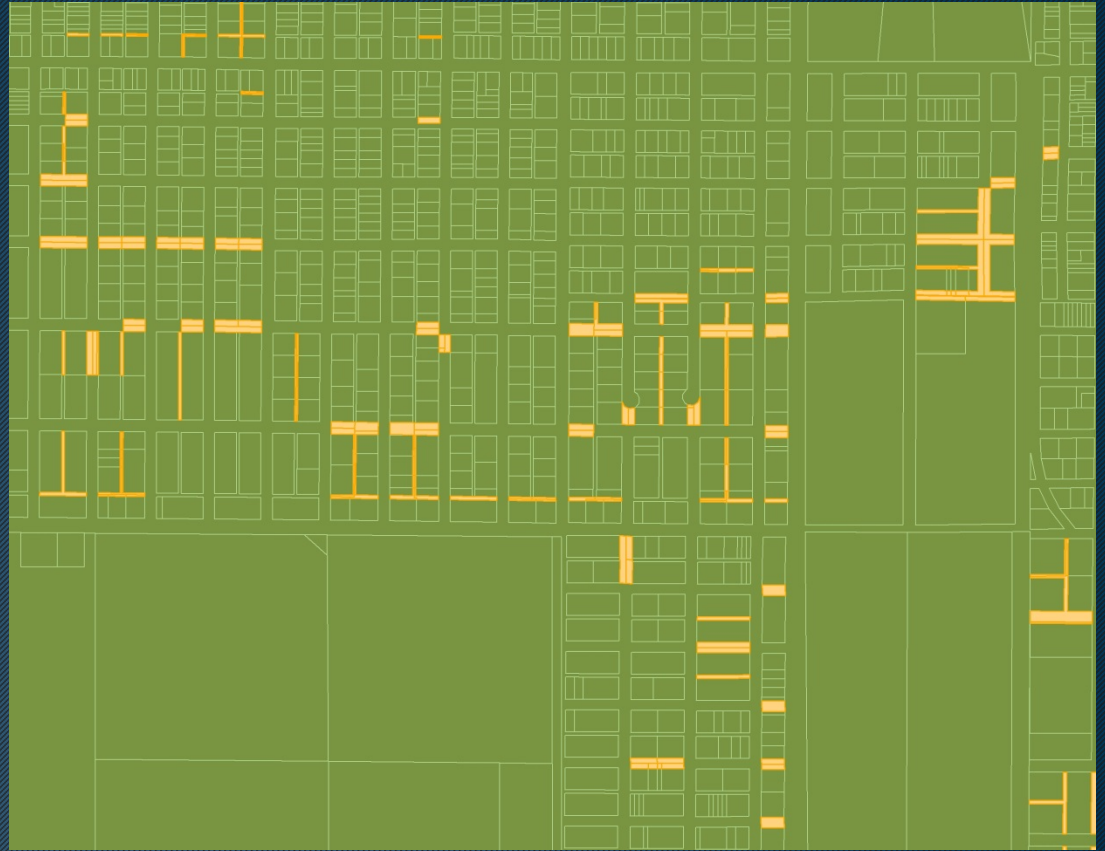
2017 = 2678

2018 = 2733

2019 = 2756

2020 = 2765

2021 = 2770



Condos in the Fabric - 2021

19 Condo Plat boundaries
109 Tax Parcels
200 Associated parcel features
328 Total Parcel Fabric elements

2016 – 94
2017 – 105
2018 – 107
2019 – 109
2020 – 109
2021 = 109



V3 Benchmark Status for PLSS Corner Integration

Layer Status

PLSS Layer Status

	Status/Comments
Number of PLSS corners (selection, ¼, meander) set in original government survey that can be remonumented in your Douglas County	• 4393
Number of PLSS corners capable of being remonumented in your county that have been remonumented	2671
Number of remonumented PLSS corners with survey grade coordinates (see below for definition) <ul style="list-style-type: none"> • SURVEY GRADE – coordinates collected under the direction of a Professional Land Surveyor, in a coordinate system allowed by 236.18(2), and obtained by means, methods and equipment capable of repeatable 2 centimeter or better precision • SUB-METER – point precision of 1 meter or better • APPROXIMATE – point precision within 5 meters or coordinates derived from public records or other relevant information 	<ul style="list-style-type: none"> • 2407, (Survey Grade) • 31, (Sub-meter) • 233, (Approximate)
Number of survey grade PLSS corner coordinates integrated into county digital parcel layer	1185
Number of non-survey grade PLSS corner coordinates integrated into county digital parcel layer	945
Tie sheets available online?	YES https://douglascowi.wgxtreme.com/
Percentage of remonumented PLSS corners that have tie sheets available online (whether or not they have corresponding coordinate values)	100% (2671)
Percentage of remonumented PLSS corners that have tie sheets available online (whether or not they have corresponding coordinate values) and a corresponding URL path/hyperlink value in the PLSS geodatabase	100% (2671)
PLSS corners believed to be remonumented based on filed tie-sheets or surveys, but do not have coordinate values	• 662
Approximate number of PLSS corners believed to be lost or obliterated	• 1728
Which system(s) for corner point identification/ numbering does the county employ (e.g., the Romportl point numbering system known as Wisconsin Corner Point Identification System, the BLM Point ID Standard, or other corner point ID system)?	Romportl Point Numbering System
Does the county contain any non-PLSS areas (e.g., river frontage long lots, French land claims, private claims, farm lots, French long lots, etc.) or any special situations regarding PLSS data for tribal lands?	• NO
Total number of PLSS corners along each bordering county	Burnett = 30 Washburn= 53 Bayfield= 87 WI/MN State Line= 72
Number of PLSS corners remonumented along each county boundary	Burnett = 30 Washburn= 53 Bayfield= 87 WI/MN State Line= 72
Number of remonumented PLSS corners along each county boundary with survey grade coordinates	Burnett = 30 Washburn= 53 Bayfield= 87 WI/MN State Line= 72
In what ways does your county collaborate with or plan to collaborate with neighboring counties for PLSS updates on shared county borders?	Burnett = 30 (100%) Washburn= 53 (100%) Bayfield= 52 (60%) WI/MN State Line= 25 (34%) Douglas County has worked with neighboring counties and states on shared PLSS updates and plans to continue to do so in the future

Survey Documents Inventory

Douglas County Surveyor Control Summary 2021 (As of 12/7/2021)

Centerline Monuments = 15

Section Corners = 106

- Section Corners via the County Bounty System = 30
- Contracted Section Corners = 26
- DC Surveyor Collected Corners = 50

Survey Site , <http://www.superiordcgis.org/surveyors/>
Updated with new corners and current links to survey docs. Currently being taken down due to software sun setting.

We also added Survey data to the County GIS Online Site at <http://douglascowi.wgxtreme.com/>

Survey Documents Inventory

Georeferenced Survey Documents Inventory

5130 Total Documents

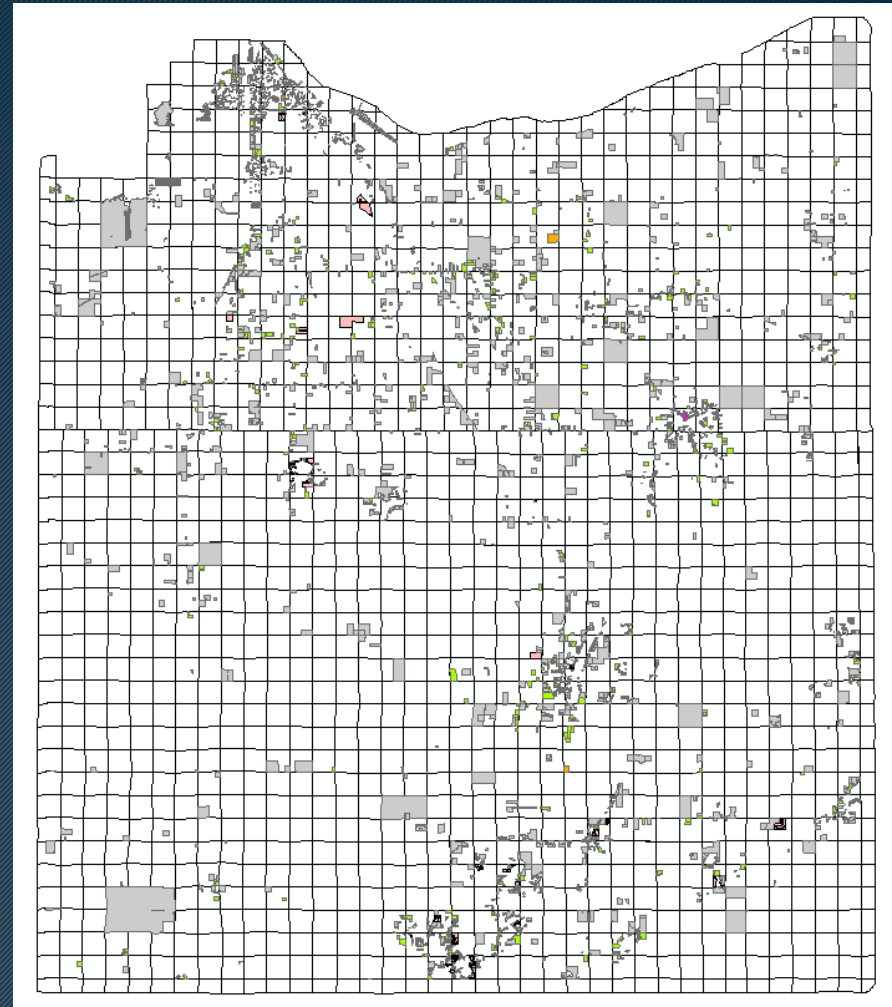
ALTA = 46

Certified Survey Maps = 1557

Site Plans = 224

Maps of Survey = 3255

Plats = 48

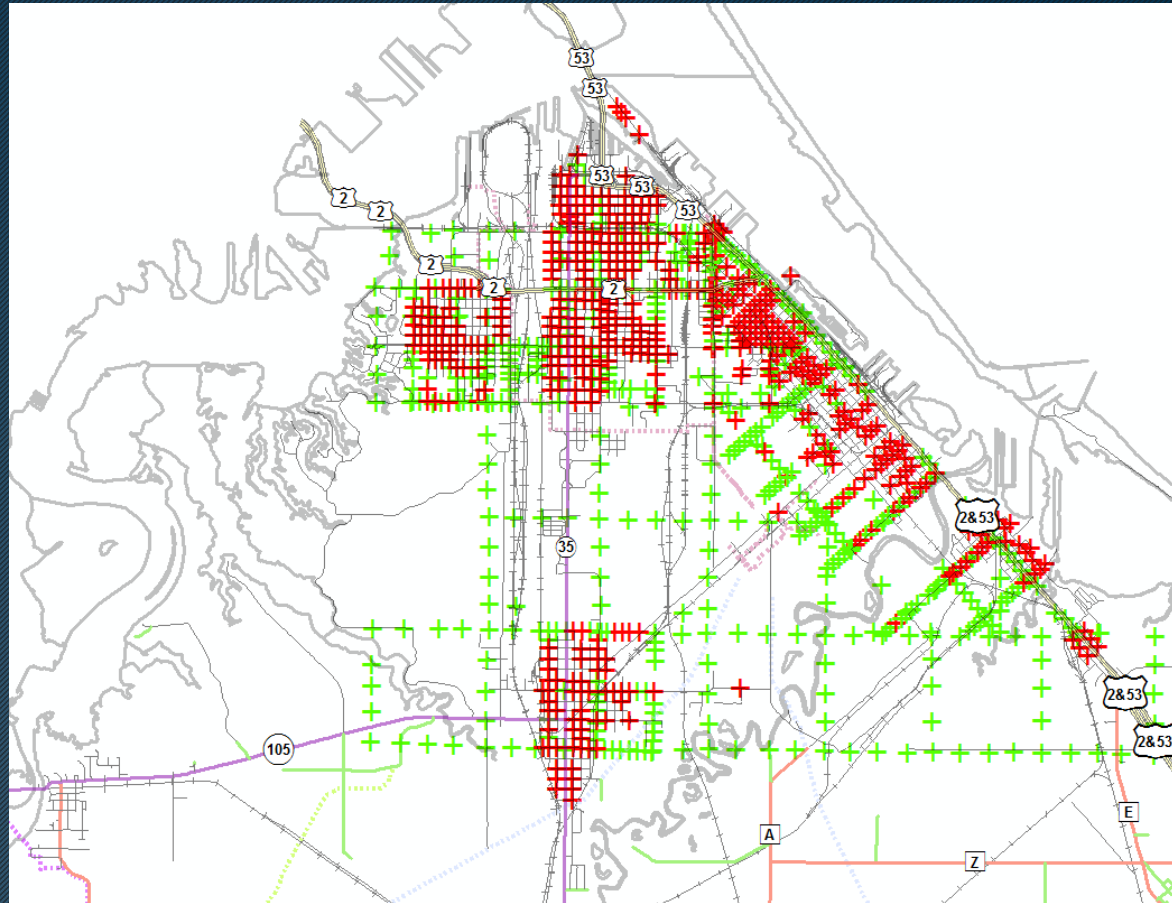


Street Centerline Monuments

City of Superior Street Centerline Monuments

Attributed Monuments = 501 (Red)

Unattributed Monuments = 512 (Green)

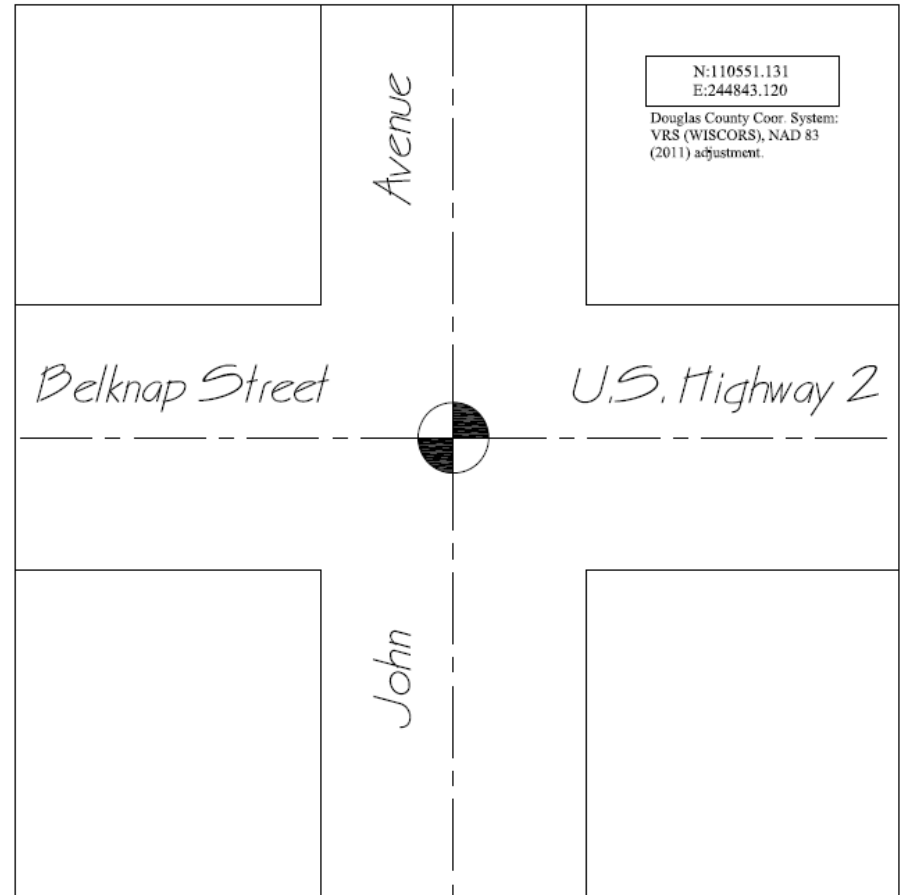


City of Superior Street Centerline Monument Record Sample

Street Centerline Monument Record

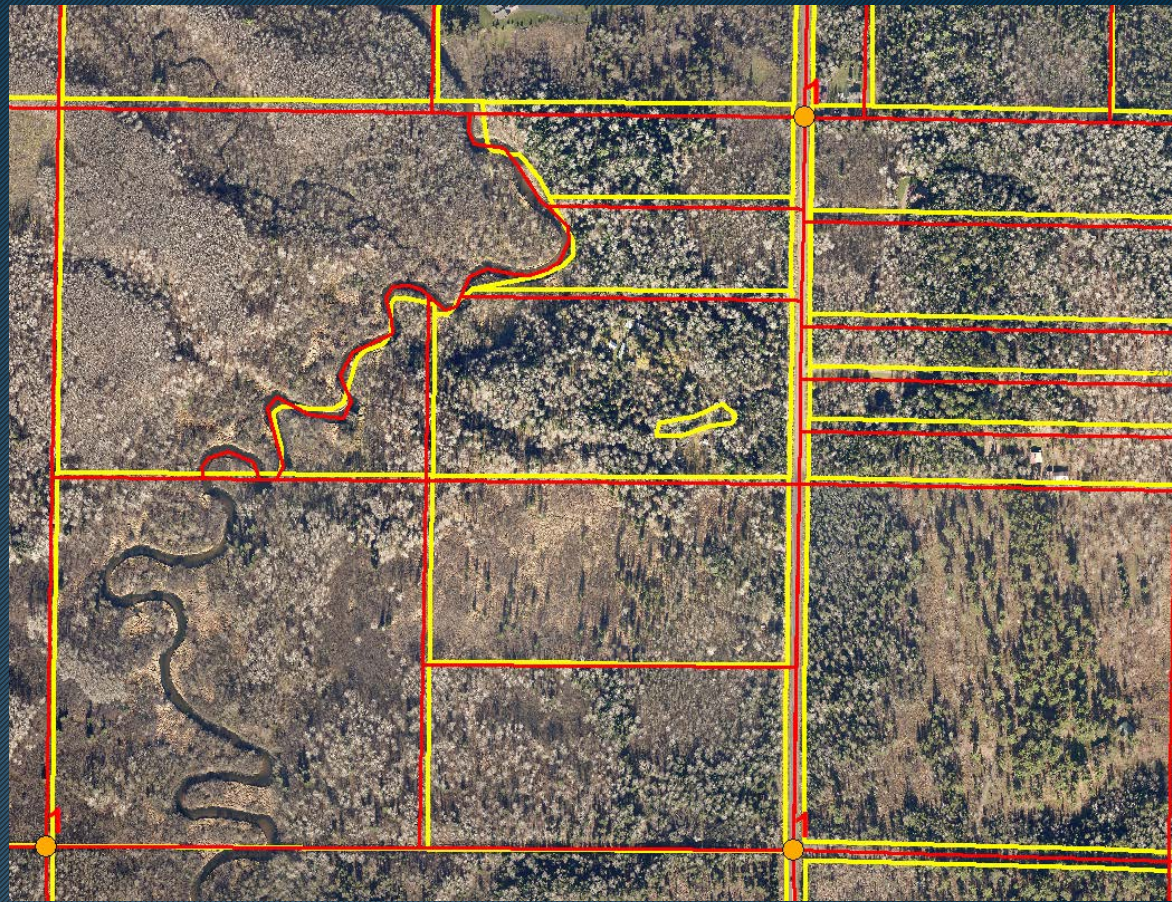
City of Superior Centerline Monument Record

*Found cast iron centerline monument
set Survey Mark Nail at surface over monument.*



Brule Area

Brule Area Adjustment to PLSS
Yellow = Before Adjustment
Red = After Adjustment



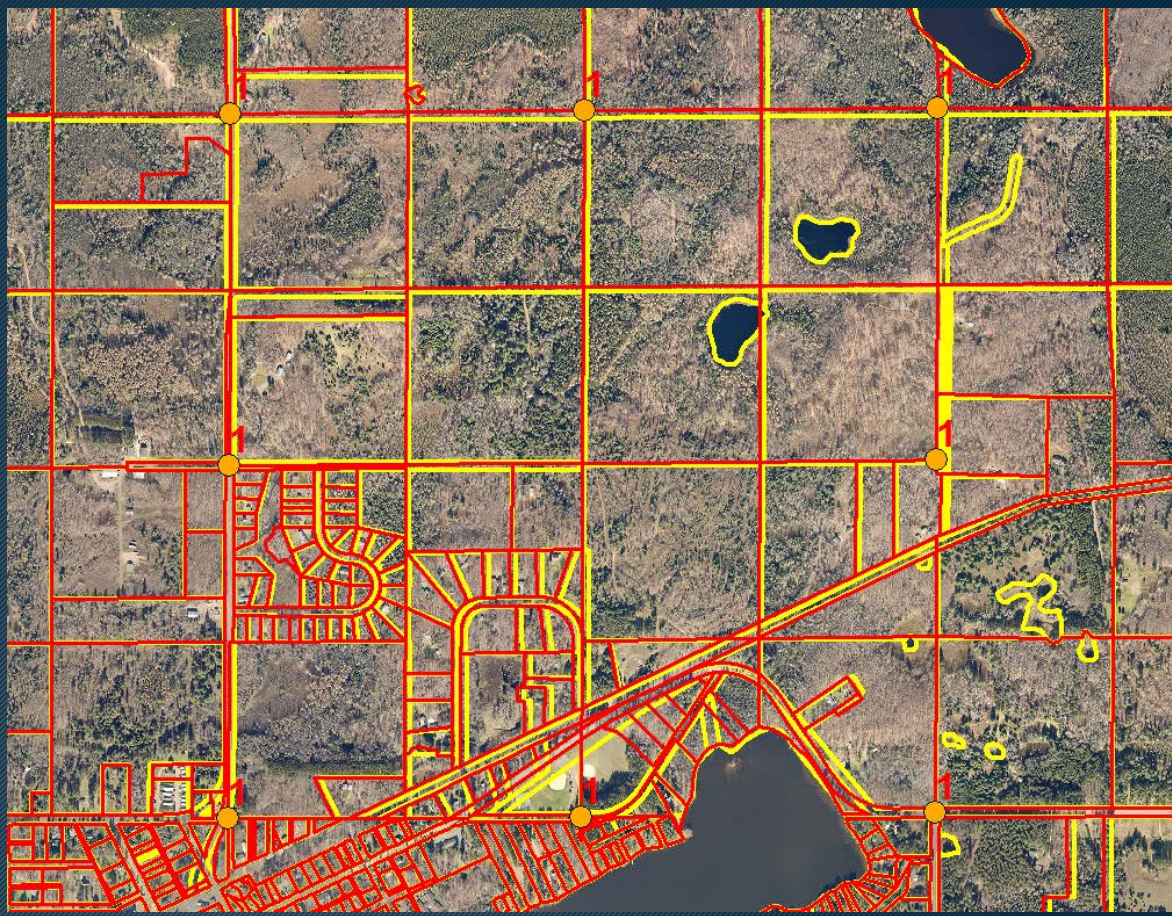
Minnesuing Lake Adjustment

Yellow = Before Adjustment
Red = After



471125 Adjustment

Yellow = Before Adjustment
Red = After



Wisconsin Point Adjustment

Yellow = Before Adjustment
Red = After Adjustment



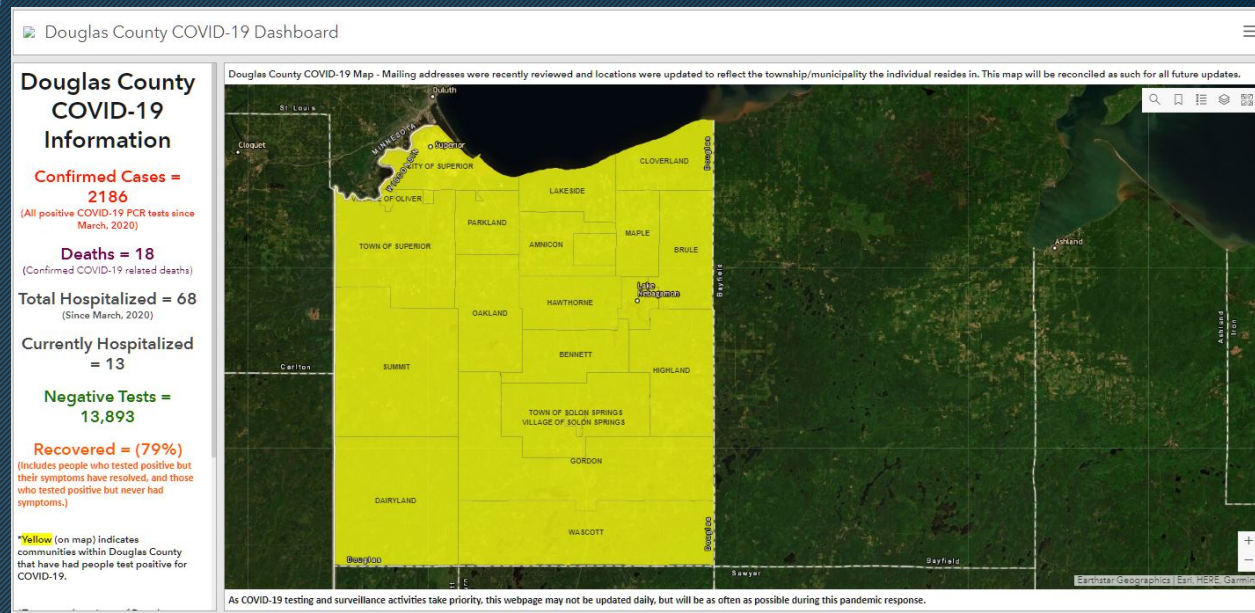


Douglas County COVID-19 Dashboard

<https://douglascountywi.maps.arcgis.com/apps/opsdashboard/index.html#/Baa24df0bdd349cca4847f6722a30fa9>

Land Information Office's COVID-19 Response

Over 100,000 hits when turned off June 1, 2021





Land Information Office's NextGen911 Activities in 2020

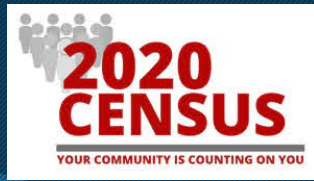
NextGen911(NG911) is a Federally required upgrade to the CAD/911 systems throughout the nation. Wisconsin is developing standards and requirements for County systems to meet. Ng911 is a fully GIS integrated system with stringent requirements that must be met.

Douglas County NG911 Activities include:

- CAD911/GIS data assessment in 2020
- Budgeting for GIS staff assistance
- Continued monitoring of the State's NG911 recommendations and needed response
- Implementation of GIS data changes as required by the State and Federal governments

Challenges for LIO in NG911

- Address system used by Douglas County
- Migration of current data to required schema
- Future maintenance needs and costs



Land Information Office's Redistricting Role in 2020-2021

US Census April 2020 kicks off the census count and then in April 2021 redistricting for the City of Superior and Douglas County begins

The process: (Subject to change) April 1, 2021 to October 1, 2021 (180 days)

- April 2021, County Wards Plan development starts (60 days to complete and approve)
- City Aldermanic redistricting starts as soon as a County Ward Plan is approved (60 days to complete and approve)
- County Supervisor Boundaries Plan starts (60 days to complete and approve)

Due to census data not being complete the process Started on August 23, 2021 and was completed by November 10, 2021



City Poll Site Lookup

<https://portal.superiordcgis.org/portal/apps/webappviewer/index.html?id=b2eeeb1a43124ffbb0e0db2ad2a3f65b>

Land Information
Office's Redistricting
Role in 2021

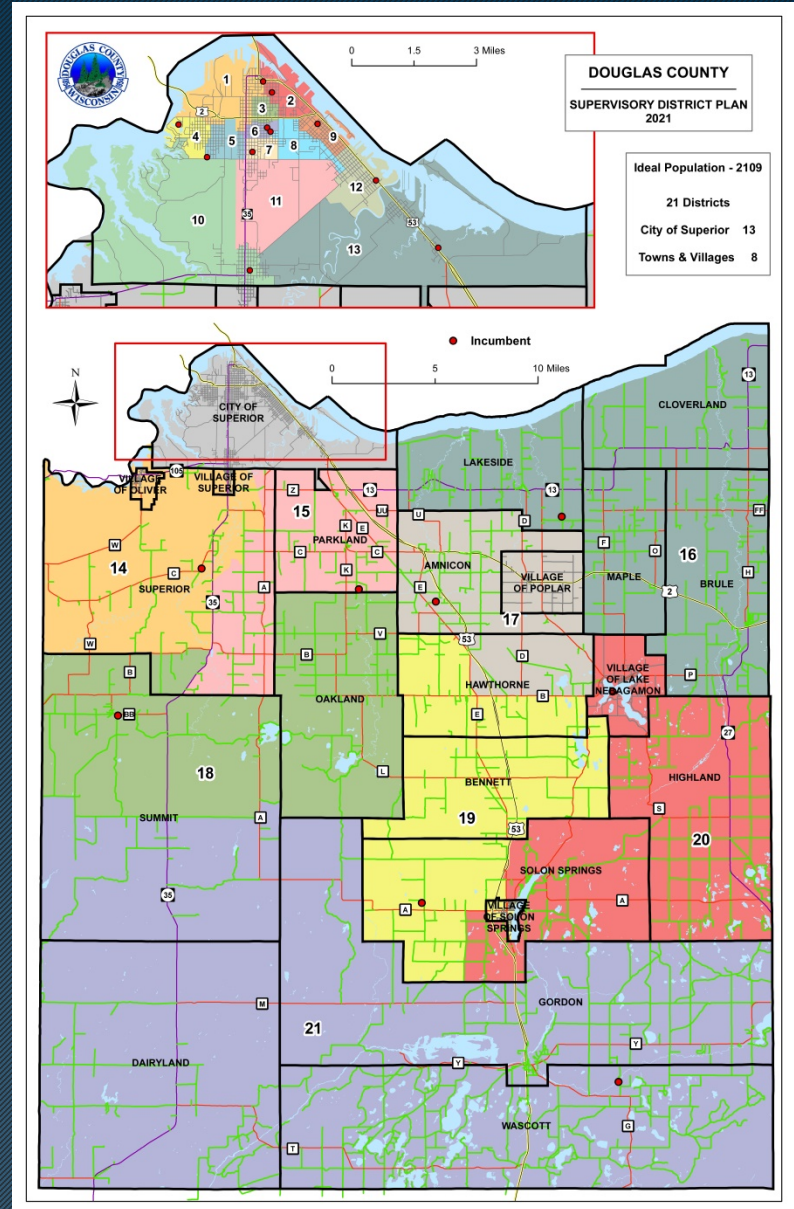




County Supervisor Districts

<https://www.douglascountywi.org/DocumentCenter/View/503/District-Maps?bidId=>

Land Information
Office's Redistricting
Role in 2021

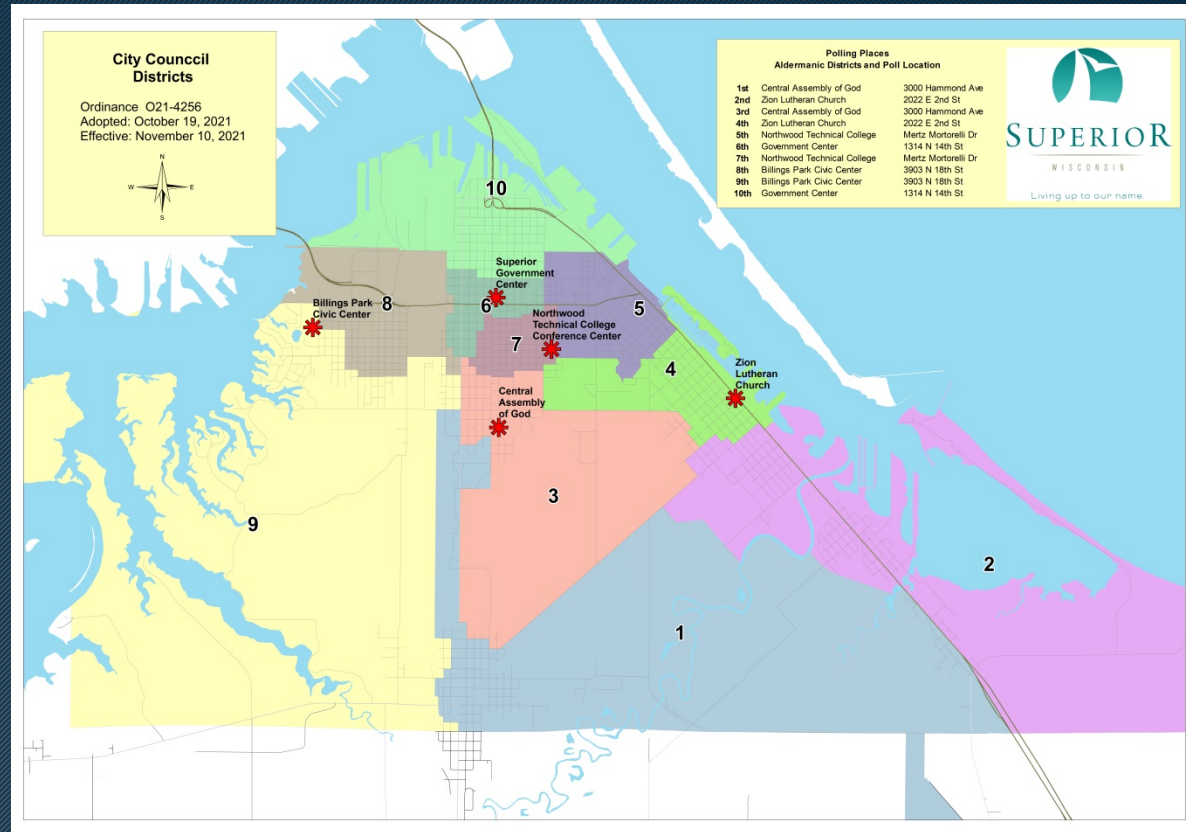




City Aldermanic Districts

<http://www.ci.superior.wi.us/190/Polling-Places>

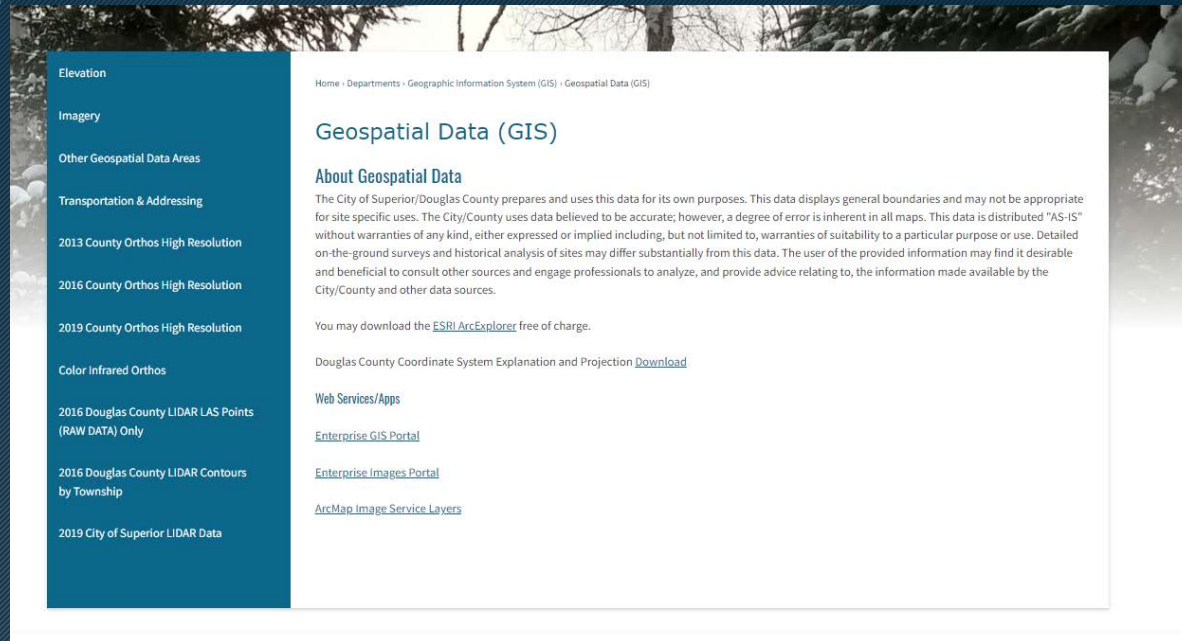
Land Information
Office's Redistricting
Role in 2021



Geospatial Data Downloads

The City/County LIO currently has nearly all it's GIS data available for download (free)it's been in place since 2010 or so

<http://www.ci.superior.wi.us/474/Geospatial-Data-GIS>



The screenshot shows a web page titled "Geospatial Data (GIS)". On the left is a blue sidebar with a list of data categories: Elevation, Imagery, Other Geospatial Data Areas, Transportation & Addressing, 2013 County Orthos High Resolution, 2016 County Orthos High Resolution, 2019 County Orthos High Resolution, Color Infrared Orthos, 2016 Douglas County LIDAR LAS Points (RAW DATA) Only, 2016 Douglas County LIDAR Contours by Township, and 2019 City of Superior LIDAR Data. The main content area has a breadcrumb trail: Home > Departments > Geographic Information System (GIS) > Geospatial Data (GIS). Below the title "Geospatial Data (GIS)", there is a section "About Geospatial Data" with a disclaimer: "The City of Superior/Douglas County prepares and uses this data for its own purposes. This data displays general boundaries and may not be appropriate for site specific uses. The City/County uses data believed to be accurate; however, a degree of error is inherent in all maps. This data is distributed 'AS-IS' without warranties of any kind, either expressed or implied including, but not limited to, warranties of suitability to a particular purpose or use. Detailed on-the-ground surveys and historical analysis of sites may differ substantially from this data. The user of the provided information may find it desirable and beneficial to consult other sources and engage professionals to analyze, and provide advice relating to, the information made available by the City/County and other data sources." Below this, it states "You may download the ESRI ArcExplorer free of charge." and provides a link for "Douglas County Coordinate System Explanation and Projection Download". At the bottom, there are three links under the heading "Web Services/Apps": "Enterprise GIS Portal", "Enterprise Images Portal", and "ArcMap Image Service Layers".

Land Information Office's Mobile /online Presence

City/County Portal Servers in 2020-2021

- City/County COSDC Enterprise Server
 - <https://portal.superiordcgis.org/portal>



Currently working on an permissions and roll-out plan
for 2022

Land Information
Office's Mobile
/online Presence

City/County Map Services

<https://portal.superiordcgis.org/portal/apps/webappviewer/index.html?id=cccdec273dc342828351bc3bca1e49ee>



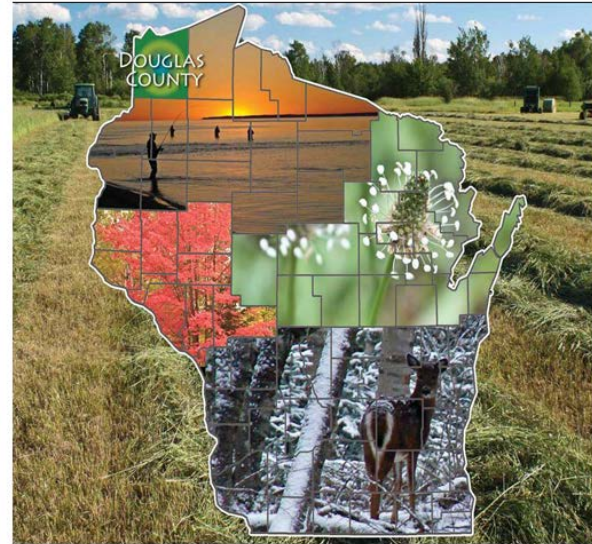
Land Information Plan

Douglas County Land Information Plan 2022-2024

Submitted 12/31/2021

Douglas County

LAND RECORDS MODERNIZATION PLAN
2022 - 2024



Version Date 12/10/2021
Approved/Adopted by Land Information Council on: 12/20/2021

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Discussion?

