## Green Lake County Land Information Plan

2025-2026-2027

Green Lake County Land Information Council 571 County Road A Green Lake WI 54941 (920) 294-4174

https://www.greenlakecountywi.gov/

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## **EXECUTIVE SUMMARY**

**About this Document.** This document is a land information plan for Green Lake County prepared by the Land Information Officer (LIO) and the Land Information Council. Under state statute 59.72(3)(b), a "countywide plan for land records modernization" is required for participation in the Wisconsin Land Information Program (WLIP). The purpose of this document is twofold: 1) to meet WLIP funding eligibility requirements necessary for receiving grants and retaining fees for land information, and 2) to plan for county land records modernization in order to improve the efficiency of government and provide improved government services to businesses and county residents.

**WLIP Background.** The WLIP, administered by the Wisconsin Department of Administration, is funded by document recording fees collected by register of deeds at the county-level. In 2023, Green Lake County was awarded \$136,152 in WLIP grants and retained a total of \$26,496 in local register of deeds document recording fees for land information.

This plan lays out how funds from grants and retained fees will be prioritized. However, as county budgets are determined on an annual basis with county board approval, this plan provides estimated figures that are subject to change and are designed to serve planning purposes only.

Land Information in Green Lake County. Land information is central to county operations, as many essential services rely on accurate and up-to-date geospatial data and land records. A countywide land information system supports economic development, emergency planning and response, and a host of other citizen services. The Green Lake County land information system integrates and enables efficient access to information that describes the physical characteristics of land, as well as the property boundaries and rights attributable to landowners.

**Mission of the Land Information Office.** In the next three years, Green Lake County's Land Information Office strives to be recognized for its exceptional web mapping site, gains in governmental efficiencies by broadening the utilization of GIS, improvements in parcel mapping accuracy, and responsiveness to meeting the land records needs of residents and businesses.

**Land Information Office Projects.** To realize this mission, in the next three years, the county land information office will focus on the following projects:

Green Lake County Land Information Projects: 2025-2026-2027			
Project	Project Plan for PLSS (Benchmark 4)		
Project #1	NG9-1-1 Address Updates		
Project #2	Countywide Aerial Imagery		
Project #3	Lidar		
Project #4	Organize Highway Plats		
Project #5	Scan Land Records		
Project #6	Surveying and Mapping Equipment		
Project #7	Training		
Project #8	Education and Public Outreach		
Project #9	Printing		
Ongoing Cost	File Survey Maps and Highway Plats		
Ongoing Cost	Annual Software Maintenance		

The remainder of this document provides more details on Green Lake County and the WLIP, summarizes current and future land information projects, and reviews the county's status in completion and

## 1 INTRODUCTION

In 1989, a public funding mechanism was created whereby a portion of county register of deeds document recording fees collected from real estate transactions would be devoted to land information through a new program called the Wisconsin Land Information Program (WLIP). The purpose of the land information plan is to meet WLIP requirements and aid in county planning for land records modernization.

## The WLIP and the Land Information Plan Requirement

In order to participate in the WLIP, counties must meet certain requirements:

- Update the county's land information plan at least every three years
- Meet with the county land information council to review expenditures, policies, and priorities of the land information office at least once per year
- Report on expenditure activities each year
- Submit detailed applications for WLIP grants
- Complete the annual WLIP survey
- Subscribe to DOA's land information listserv
- Coordinate the sharing of parcel/tax roll data with the Department of Administration in a searchable format determined by DOA under s. 59.72(2)(a)

### LAND INFORMATION

Any physical, legal, economic or environmental information or characteristics concerning land, water, groundwater, subsurface resources or air in this state.

'Land information' includes information relating to topography, soil, soil erosion, geology, minerals, vegetation, land cover, wildlife, associated natural resources, land ownership, land use, land use controls and restrictions, jurisdictional boundaries, tax assessment, land value, land survey records and references, geodetic control networks, aerial photographs, maps, planimetric data, remote sensing data, historic and prehistoric sites and economic projections.

- Wis. Stats. section 59.72(1)(a)

Any grants received and fees retained for land information through the WLIP must be spent consistent with the county land information plan.

### **The Statewide Parcel Map Initiative**

For Strategic Initiative grant eligibility, counties are required to apply WLIP funding toward achieving certain statewide objectives, specified in the form of "benchmarks." Benchmarks for parcel data—standards or achievement levels on data quality or completeness—were determined through a participatory planning process. Current benchmarks are detailed in the WLIP grant application, as will be future benchmarks.

#### **WLIP Benchmarks**

- Benchmark 1 & 2 Parcel and Zoning Data Submission/Extended Parcel Attribute Set Submission
- Benchmark 3 Completion of County Parcel Fabric
- Benchmark 4 Completion and Integration of PLSS

More information on how Green Lake County is meeting these benchmarks appears in the Foundational Elements section of this plan document.

### **County Land Information System History and Context**

The Land Information Office (Register of Deeds) and Land Information Committee were established in 1990 by Resolution 30-1990. The Land Use Planning & Zoning Dept. became the Land Information Office by Res. 17-2005 to coincide with the Land Information Officer. The Land Information "Committee" was replaced by the Land Information "Council" by Res. 28-2010.

### **County Land Information Plan Process**

Counties must submit their plans to DOA for approval every three years. The 2025-2026-2027 plan is to be completed at the end of 2024.

#### Plan dates:

1992-1993-1994-1995-1996-1997 Res. 21-1992
1998-1999-2000-2001-2002-2003-2004 Res. 06-1999
2005-2006-2007-2008-2009-2010 Res. 16-2006
2011-2012-2013-2014-2015
2016-2017-2018
2019-2020-2021
2022-2023-2024
2025-2026-2027

### **County Land Information Plan Timeline**

- DOA release of finalized instructions by March 31, 2024.
- April-September 2024: Counties work on land info plans.
- Complete draft plans due to DOA by September 30, 2024 (but sooner is advised).
- Final plans with County Land Info Council approval due by December 31st, 2024.

### **Plan Participants and Contact Information**

Another requirement for participation in the WLIP is the County Land Information Council, established by legislation in 2010. The Council is tasked with reviewing the priorities, needs, policies, and expenditures of a Land Information Office and advising the county on matters affecting that office.

According to s. 59.72(3m), Wis. Stats., the County Land Information Council is to include:

- Register of Deeds
- Treasurer
- Real Property Lister or designee
- Member of the County Board
- Representative of the Land Information Office
- A realtor or member of the Realtors Association employed within the county
- A public safety or emergency communications representative employed within the county
- County Surveyor or a registered professional land surveyor employed within the county
- Other members of the board or public that the board designates

The Land Information Council must have a role in the development of the County Land Information Plan, and DOA requires County Land Information Councils to approve final plans.

This plan was prepared by the Green Lake County Land Information Officer (LIO) and Land Information Council as listed on the next page.

Name	Title	Email	Phone
<b>Curt Talma</b> Chair	County Board Member	https://www.greenlakecountywi.gov/contact-us/	920-294-4005
<b>Todd Morris</b> Vice-Chair	County Conservationist	https://www.greenlakecountywi.gov/contact-us/	920-294-4005
<b>Liz Otto</b> Secretary	County Clerk	https://www.greenlakecountywi.gov/contact-us/	920-294-4005
Gerald Stanuch Land Information Officer (LIO)	GIS Specialist	https://www.greenlakecountywi.gov/contact-us/	920-294-4005
Stefanie Meeker LIO Alternate	Real Property Lister	https://www.greenlakecountywi.gov/contact-us/	920-294-4005
Matt Kirkman	Planning & Zoning	https://www.greenlakecountywi.gov/contact-us/	920-294-4005
Don Lenz	County Surveyor	https://www.greenlakecountywi.gov/contact-us/	920-294-4005
Jessica McLean	Treasurer	https://www.greenlakecountywi.gov/contact-us/	920-294-4005
Mark Podoll	Sheriff	https://www.greenlakecountywi.gov/contact-us/	920-294-4005
Jeff Shadick	Realtor	https://www.greenlakecountywi.gov/contact-us/	920-294-4005
Renee Thiem-Korth	Register of Deeds	https://www.greenlakecountywi.gov/contact-us/	920-294-4005

## 2 FOUNDATIONAL ELEMENTS

Counties must have a land information plan that addresses development of specific datasets or map layer groupings historically referred to as the WLIP Foundational Elements. Foundational Elements incorporate nationally recognized "Framework Data" elements, the major map data themes that serve as the backbone required to conduct most mapping and geospatial analysis.

In the past, Foundational Elements were selected by the former Wisconsin Land Information Board under the guiding idea that program success is dependent upon a focus for program activities. Thus, this plan places priority

### **FOUNDATIONAL ELEMENTS**

PLSS

Parcel Mapping
LiDAR and Other Elevation Data
Orthoimagery
Address Points and Street Centerlines
Land Use

Zonina

Administrative Boundaries

Other Layers

on certain elements, which must be addressed in order for a county land information plan to be approved. Beyond the county's use for planning purposes, Foundational Element information is of value to state agencies and the WLIP to understand progress in completion and maintenance of these key map data layers.

### **PLSS**

### **Public Land Survey System Monuments**

### **Layer Status**

PLSS Layer Status						
	St	atus/Comments				
Number of PLSS corners (selection, ¼, meander) <b>set in original government survey</b> that can be remonumented in your county	•	1861				
Number of PLSS corners capable of being remonumented in your county that <b>have been remonumented</b>	•	1768				
Number of remonumented PLSS corners with survey grade coordinates (see below for definition)  • 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		1768				
Number of survey grade PLSS corner coordinates integrated into county digital parcel layer		1768				
Number of non-survey grade PLSS corner coordinates integrated into county digital parcel layer	•	93				
Tie sheets available online?	•	<b>Yes</b> (https://www.greenlakecountywi.gov/departments/land-use-planning-zoning/?section=county-surveyor#a-7)				
Percentage of remonumented PLSS corners that have <b>tie sheets available online</b> (whether or not they have corresponding coordinate values)	•	100%				
Percentage of remonumented PLSS corners that have tie sheets available online (whether or not they have corresponding coordinate values) <u>and</u> a corresponding URL path/hyperlink value in the PLSS geodatabase	•	100%				
PLSS corners believed to be remonumented based on filed tie-sheets or surveys, but do not have coordinate values	•	0				
Approximate number of PLSS corners believed to be lost or obliterated	•	93				
Which system(s) for <b>corner point identification/ numbering</b> 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)?	•	Sequential page number of tie sheet as filed (0001-1861)				
Does the county contain any <b>non-PLSS areas</b> (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		191				
Number of PLSS corners remonumented along each county boundary		186				
Number of remonumented PLSS corners along each county boundary with survey grade coordinates	•	186				

### Custodian

County Surveyor

### Maintenance

- Field check any corners with a last visited date over 20 years
- 1861 corners / 20 years = 93 corners perpetuated per year

### **Standards**

- Statutory Standards for PLSS Corner Remonumentation
  - s. 59.74, Wis. Stats. Perpetuation of section corners, landmarks.
  - s. 60.84, Wis. Stats. Monuments.
  - ch. A-E 7.08, Wis. Admin. Code, U.S. public land survey monument record.

- ch. A-E 7.06, Wis. Admin. Code, Measurements.
- s. 236.15, Wis. Stats. Surveying requirement.
- North American Terrestrial Reference Frame of 2022 (NATRF2022)
- Survey grade standard from Wisconsin County Surveyor's Association:
  - 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

### **Other Geodetic Control and Control Networks**

e.g., HARN, Height Mod., etc.

**Layer Status** 

NA

### **Parcel Mapping**

#### **Parcel Geometries**

**Layer Status** 

- **Progress toward completion/maintenance phase:** Maintenance phase, in Green Lake County, 100% of the county's parcels are available in a commonly-used digital GIS format
- Projection and coordinate system: WISCRS (Wisconsin Coordinate Reference System)
- **Integration of tax data with parcel polygons:** The county does have a parcel polygon model that directly integrates tax/assessment data as parcel attributes.
- Online Parcel Viewer Software/App and Vendor name: Esri Experience Builder hosted on ArcGIS Online, implemented and maintained in-house
- Unique URL path for each parcel record: Yes
  - One can view the specific parcel's attribute information including detailed assessment data, the tax bill for that parcel, information on recorded documents, permits, zoning information, etc.
  - The unique URL is stable
  - Values can be exported using the Experience Builder "Near Me" widget

#### Custodian

County GIS Specialist

#### Maintenance

• **Update Frequency/Cycle:** Parcel polygons are updated throughout the year to coincide with real property listing

#### **Standards**

• **Data Dictionary:** The county Data Dictionary is in the dataset's metadata. The metadata style is configurable to meet state, federal, professional, or other standards now or in the future.

### **Parcels Without Land Value**

**Layer Status** 

- Number of parcels without a land value recorded to-date: none as of 09/11/2024
- County geolocates/maps parcels for improvements only and without a land value by: Not applicable – County does not map parcels without land value. County includes all buildings, improvements, and fixtures on existing parcel listings with land values.

### **Assessment/Tax Roll Data**

**Layer Status** 

- Progress toward completion/maintenance phase: Maintenance phase
- Tax Roll Software/App and Vendor name: Ascent Land Records Suite by Transcendent Technologies

Municipal Notes: NA

#### Custodian

County Treasurer

#### Maintenance

- **Maintenance of the Searchable Format standard:** To maintain the Searchable Format standard, the county will rely on a database view maintained by our tax software vendor.
- **Searchable Format Workflow:** The county maintains parcel/tax roll data in the Searchable Format or close enough to the Searchable Format that **little to no human labor is required** for the annual submission of parcel/tax roll data to DOA.

#### **Standards**

- Wisconsin Department of Revenue Property Assessment Manual and attendant DOR standards
- DOR XML format standard requested by DOR for assessment/tax roll data

### Non-Assessment/Tax Information Tied to Parcels

e.g., Permits, Easements, Non-Metallic Mining, Brownfields, Restrictive Covenants

### **Layer Status**

NA

### **ROD Real Estate Document Indexing and Imaging**

#### **Layer Status**

- Grantor/Grantee Index: complete back to 1974
- Tract Index:
  - complete back to 1974, earlier hardcopy index is online as a digital document
  - tract indexing is PLSS-based and not parcel PIN-based
  - the county's tract indexing encompasses deed, land contract, mortgage, certified survey map, plat, etc. documents
- Imaging:
  - complete back to 1845
  - volume and page indexing
- ROD Software/App and Vendor Name: Laredo/Tapestry by Fidlar

#### Custodian

County Register of Deeds

#### Maintenance

daily

#### **Standards**

- s. 59.43, Wis. Stats. Register of deeds; duties, fees, deputies.
- ch. 706, Wis. Stats. Conveyances of real property; Recording; Titles.

### **LiDAR and Other Elevation Data**

#### LiDAR

#### **Layer Status**

- Most recent acquisition year: 2018
- Accuracy: vertical 19.6 cm at 95% confidence level
- Post spacing: 0.7 meters (density 2 points per square meter)
- Contractor's standard, etc.: supports 1-ft contour interval
- Next planned acquisition year: 2026 (8-year period)
- QL0/QL1/QL2 acquisition plans: 2018 3DEP QL2 USGS 3D Elevation Program Quality Level 2

#### Custodian

County GIS Specialist

#### Maintenance

• 3DEP program 8-year period. The 5 year ortho projects are produced using the LiDAR data. Changes in elevation over time, such as construction, highway projects, grading, and mining may affect the accuracy of the ortho.

#### **Standards**

- USGS Lidar Base Specification
- FEMA compliant contours

### **LiDAR Derivatives**

e.g., Bare-Earth Digital Terrain Model (DTM), Bare-Earth Elevation Contours, Bare-Earth Digital Elevation Model (DEM), Digital Surface Model (DSM), Hydro-Enforced DEMs, etc.

### **Layer Status**

- Layer complete
- 2 ft DEM

#### Custodian

County GIS Specialist

#### Maintenance

See LiDAR

#### **Standards**

See LiDAR

### **Other Types of Elevation Data**

### **Layer Status**

Maintenance phase

#### Custodian

County GIS Specialist

#### Maintenance

- Interim area of interest updates between the countywide 8 year LiDAR updates will be done via drone camera imagery processed into elevation models
- Affordable, site specific, high resolution, temporal data acquisition

#### Standards

- FAA (Federal Aviation Administration) Part 107 Small Unmanned Aircraft Rule
- Lexipol Policy-613 UAS (Unmanned Aerial Systems)

### Orthoimagery

### **Orthoimagery**

#### **Layer Status**

• Most recent acquisition year: 2020

• Resolution: 6"

• Contractor's standard: TIF

• Next planned acquisition year: 2025 (5 year update cycle)

#### Custodian

County GIS Specialist

#### Maintenance

- Interim area of interest updates between the countywide 5 year ortho updates will be done via ortho imagery with drone camera hardware
- Affordable, site specific, high resolution, temporal data acquisition

### **Standards**

- WROC
- FAA (Federal Aviation Administration) Part 107 Small Unmanned Aircraft Rule
- Lexipol Policy-613 UAS (Unmanned Aerial Systems)

### **Historic Orthoimagery**

### **Layer Status**

1992, 2000, 2005, 2011, 2015

#### Custodian

County GIS Specialist

#### Maintenance

Archive

#### **Standards**

Contractor

### **Other Types of Imagery**

e.g., Oblique Imagery, Satellite Imagery, Infra-red, etc.

#### **Layer Status**

Maintenance phase

#### Custodian

County GIS Specialist

#### Maintenance

- Street level imagery with 360 camera hardware, and area of interest 360 drone images
- Affordable, site specific, high resolution, temporal data acquisition

#### **Standards**

- Open Data
- FAA (Federal Aviation Administration) Part 107 Small Unmanned Aircraft Rule
- Lexipol Policy-613 UAS (Unmanned Aerial Systems)

### **Address Points and Street Centerlines**

### **Address Point Data**

#### **Layer Status**

Maintenance phase

#### Custodian

County GIS Specialist

#### Maintenance

Ongoing

#### **Standards**

- Wisconsin GIS NG9-1-1 Data Standard (Site/Structure Address Point)
- WLIA Address Point Data Standard
- Code of Green Lake County Chapter 217 Road Names and Building Numbers

### **Building Footprints**

### **Layer Status**

NA

### **Other Types of Address Information**

### e.g., Address Ranges

**Layer Status** 

NA

### **Street Centerlines**

### **Layer Status**

Maintenance phase

### Custodian

County GIS Specialist

#### Maintenance

Ongoing

#### **Standards**

- Wisconsin GIS NG9-1-1 Data Standard (Road Centerline)
- WLIA Street Centerline Data Standard
- Code of Green Lake County Chapter 217 Road Names and Building Numbers

### **Rights of Way**

### **Layer Status**

- Maintenance phase
- **How maintained:** Attribute of parcel boundary lines

#### Custodian

County GIS Specialist

### Maintenance

Ongoing

### **Standards**

DOT

### **Trails**

### e.g., Recreational Trails, Snowmobile Trails

### **Layer Status**

Layer complete

#### Custodian

County GIS Specialist

#### Maintenance

Ongoing

### **Standards**

DNR

### **Land Use**

### **Land Use**

#### **Layer Status**

Layer complete

#### Custodian

County GIS Specialist

#### Maintenance

• In sync with Comp plan

### Standards

- s. 66.1001, Wis. Stats. Comprehensive planning
- Code of Green Lake County Part III Land Use Legislation

### Zoning

### **County General Zoning**

### **Layer Status**

- Layer complete
- The County does maintain a GIS representation of county general zoning boundaries.

### Custodian

County GIS Specialist

### Maintenance

Ongoing

#### **Standards**

Code of Green Lake County Part III Land Use Legislation

### **Shoreland Zoning**

### **Layer Status**

- Layer complete
- The County does maintain a GIS representation of county shoreland zoning boundaries.

#### Custodian

County GIS Specialist

#### Maintenance

Ongoing

#### **Standards**

Code of Green Lake County Part III Land Use Legislation

### **Farmland Preservation Zoning**

#### **Layer Status**

- Layer complete
- The County does maintain a GIS representation of county farmland preservation zoning boundaries.
- Year of certification:
  - Ordinance: 10-11-2017 through 12-31-2027
  - Map: 10-10-2017 through 12-31-2026

#### Custodian

County GIS Specialist

#### Maintenance

• Updated to reflect re-zones since certification

#### **Standards**

Code of Green Lake County Part III Land Use Legislation

### **Floodplain Zoning**

### **Layer Status**

- Layer complete
- The County does maintain a GIS representation of floodplain zoning boundaries.
- The county's floodplain zoning GIS data is the same as/identical to the FEMA map.

### Custodian

County GIS Specialist

### Maintenance

Ongoing

### **Standards**

Code of Green Lake County Part III Land Use Legislation

### **Airport Protection**

### **Layer Status**

Not administered by county.

### **Municipal Zoning Information Maintained by the County**

e.g., Town, City and Village, Shoreland, Floodplain, Airport Protection, Extra-Territorial, Temporary Zoning for Annexed Territory, and/or Zoning Pursuant to a Cooperative Plan

### **Layer Status**

- Layer complete
- Extra-Territorial boundary lines

#### Custodian

County GIS Specialist

#### Maintenance

On going

#### **Standards**

• s. 62.23(7a), Wis. Stats. Extraterritorial Zoning

### **Administrative Boundaries**

### **Civil Division Boundaries**

e.g., Towns, City, Villages, etc.

#### **Layer Status**

Layer complete

#### Custodian

County GIS Specialist

### Maintenance

Ongoing

#### Standards

Survey Grade PLSS

### **School Districts**

### **Layer Status**

- Layer complete
- Parcels are dissolved based on the tax roll school district attribute. They are not based on any legal written description of the school district boundaries, nor is any such description known to exist. It is unknown how the school district attribute was originally assigned on the tax roll.
- School district name is the only attribute

#### Custodian

County GIS Specialist

#### Maintenance

School district boundaries have never changed since modern assessment records

#### **Standards**

Accuracy dependent on parcel mapping

#### **Election Boundaries**

e.g., Voting Districts, Precincts, Wards, Polling Places, etc.

#### **Layer Status**

Layer complete

#### Custodian

County GIS Specialist

#### Maintenance

Updated with Census

#### **Standards**

Accuracy dependent on parcel mapping

### **Utility Districts**

e.g., Water, Sanitary, Electric, etc.

#### **Layer Status**

Layer complete

### Custodian

County GIS Specialist

#### Maintenance

Ongoing

#### **Standards**

Transmission networks only - distribution networks maintained by utilities

### **Emergency Service Boundary - Law/Fire/EMS**

### **Layer Status**

- Law Enforcement: Layer complete
- **Fire:** Layer complete
- EMS: Layer complete

#### Custodian

County GIS Specialist

#### Maintenance

Ongoing

### **Standards**

- Wisconsin GIS NG9-1-1 Data Standard (Emergency Service Boundary)
- Based on outside service agreements

### **Public Safety Answering Points (PSAP) Boundary**

### **Layer Status**

- Layer complete
- PSAP Boundary: PSAP boundary is the same as/coincident with the county boundary

#### Custodian

County GIS Specialist

#### Maintenance

Ongoing

### **Standards**

- Wisconsin GIS NG9-1-1 Data Standard (PSAP Boundary)
- Based on outside service agreements

### **Provisioning Boundary**

### **Layer Status**

Layer complete

#### Custodian

County GIS Specialist

#### Maintenance

Ongoing

#### **Standards**

- Wisconsin GIS NG9-1-1 Data Standard (Provisioning Boundary)
- Based on outside service agreements

### **Other Public Safety**

### e.g., Healthcare Facilities

#### **Layer Status**

NA

### **Lake Districts**

### **Layer Status**

Layer complete

#### Custodian

County GIS Specialist

### Maintenance

Changes are recorded with the Register of Deeds

#### **Standards**

- Based on recorded legal descriptions
- s. 33.21-37, Wis. Stats. Public Inland Lake Protection and Rehabilitation Districts

### **Native American/Tribal Lands**

**Layer Status** 

NA

### **Other Administrative Districts**

e.g., County Forest Land, Parks/Open Space, etc.

**Layer Status** 

Layer complete

Custodian

County GIS Specialist

Maintenance

Ongoing

**Standards** 

Accuracy dependent on parcel mapping

### **Other Layers**

### **Hydrography Maintained by County or Value-Added**

e.g., Hydrography maintained separately from DNR or value-added, such as adjusted to orthos; Elevation-Derived Hydrography

**Layer Status** 

Layer complete

Custodian

County GIS Specialist

Maintenance

Ongoing

**Standards** 

- Based on LiDAR hydro breaklines
- USGS Elevation-Derived Hydrography Specifications

### **Cell Phone Towers**

**Layer Status** 

Layer complete

Custodian

County GIS Specialist

Maintenance

Ongoing

**Standards** 

Based on FCC ASR (Antenna Structure Registration)

### **Bridges and Culverts**

**Layer Status** 

Layer complete

Custodian

County GIS Specialist

Maintenance

Ongoing

**Standards** 

DOT bridges plus local data

## 3 LAND INFORMATION SYSTEM

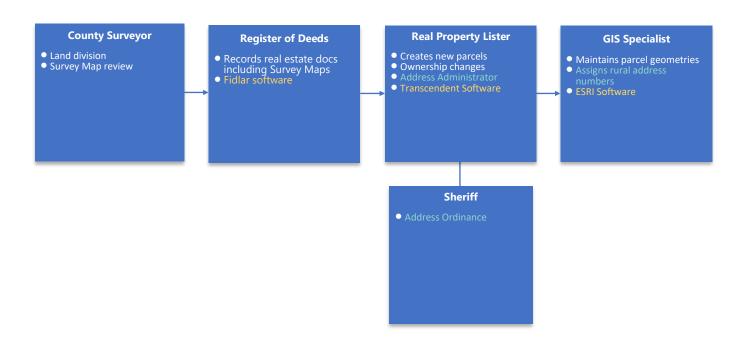
The WLIP seeks to enable land information systems that are both modernized and integrated. Integration entails the coordination of land records to ensure that land information can be shared, distributed, and used within and between government at all levels, the private sector, and citizens.

One integration requirement is listed under s. 16.967(7)(a)(1), Wis. Stats., which states that counties may apply for grants for:

The design, development, and implementation of a land information system that contains and integrates, at a minimum, property and ownership records with boundary information, including a parcel identifier referenced to the U.S. public land survey; tax and assessment information; soil surveys, if available; wetlands identified by the department of natural resources; a modern geodetic reference system; current zoning restrictions; and restrictive covenants.

This chapter describes the design of the county land information system, with focus on how data related to land features and data describing land rights are integrated and made publicly available.

## **Current Land Information System County Parcel Data Workflow Diagram**



### **Technology Architecture and Database Design**

This section refers to the hardware, software, and systems that the county uses to develop and operate computer systems and communication networks for the transmission of land information data.

#### Hardware

- Large format printer
- AR Sandbox (computer and projector) for public outreach and education
- Mobile mapping cameras, and GPS

### **Software**

- Three cloud hosted systems GIS (ESRI ArcGIS Online), Register of Deeds, Treasurer
- County currently uses ESRI ArcGIS Pro: Yes

### **Website Development/Hosting**

- In-house GIS mapping website
- Contracted Register of Deeds' document access Tapestry & Laredo
- Contracted Treasurer's web portal Transcendent Ascent Land Records Suite
- Contracted Zoning web portal Transcendent Ascent Permit Management Suite

### **Metadata and Data Dictionary Practices**

### **Metadata Creation**

 Metadata creation and maintenance process: Metadata is created and maintained by Catalog software

### **Metadata Software**

- Metadata software: ESRI ArcGIS Catalog
  - The software does generate metadata consistent with the FGDC Standard
- Metadata fields manually populated: NA

### **Metadata Policy**

• **Metadata Policy:** FGDC Standard

### **Municipal Data Integration Process**

• The county GIS maintains parcel, address point, street centerline, and other base mapping for the municipalities. This mapping is generally distributed to the municipalities, rather than the county obtaining data from the municipalities

### **Public Access and Website Information**

**Public Access and Website Information (URLs)** 

GIS Webmapping Application(s)	IS Webmapping Application(s)				
Link - URL	GIS Download Link – URL	Real Property Lister Link - URL	Register of Deeds Link - URL		
https://experience.arcgis.com/experience/54b36943ab984f878c08eed123c2645d/			https://www.greenlakecountywi.gov/departments/register-of-deeds-online-services/?section=tapestry#a-		
Single Landing Page/Portal fo	or All Land Records Data				
URL					
https://hub-greenlakecowi.hub.arcgis	.com/				
Web Services/REST End Point	ts				
URL					
	g8NccU249/arcgis/rest/services?f=htm	nl&cacheKey=956e8ecce154400e			
County Webpage with Link to	Statewide Parcel Map (www.s	sco.wisc.edu/parcels/data)			
URL					
https://hub-greenlakecowi.hub.arcgis	.com/pages/3b011bfe40dc442ba22eb	e48d657ad1c			

### **Data Sharing**

### **Data Availability to Public**

### **Data Sharing Policy**

- Green Lake County will provide a means of accessing land information through the websites listed above
- Public terminals for land information access are available in the Government Center
- Public internet access is also available at most public libraries
- Data in its original format is available on media with a fee to the requester for either the actual cost to reproduce the data, or a statutory set fee.

### **Open Records Compliance**

Green Lake County complies with Wisconsin's Open Records Law

### **Data Sharing Restrictions and Government-to-Government Data Sharing**

### **Data Sharing Restrictions**

- Green Lake County imposes no restrictions on the use or distribution of public land information
   Government-to-Government Data Sharing
  - Parcel, address, road, five year ortho updates, and LiDAR are available to municipalities within the county upon request

### **Training and Education**

• All county web applications display county contact information for individual help using county public access web sites or interpreting the data on the websites

## 4 CURRENT & FUTURE PROJECTS

This chapter lists the current and future land information projects the county is currently undertaking or intends to pursue over its planning horizon. A project is defined as a temporary effort that is carefully planned to achieve a particular aim. Projects can be thought of as the means to achieving the county's mission for its land information system.

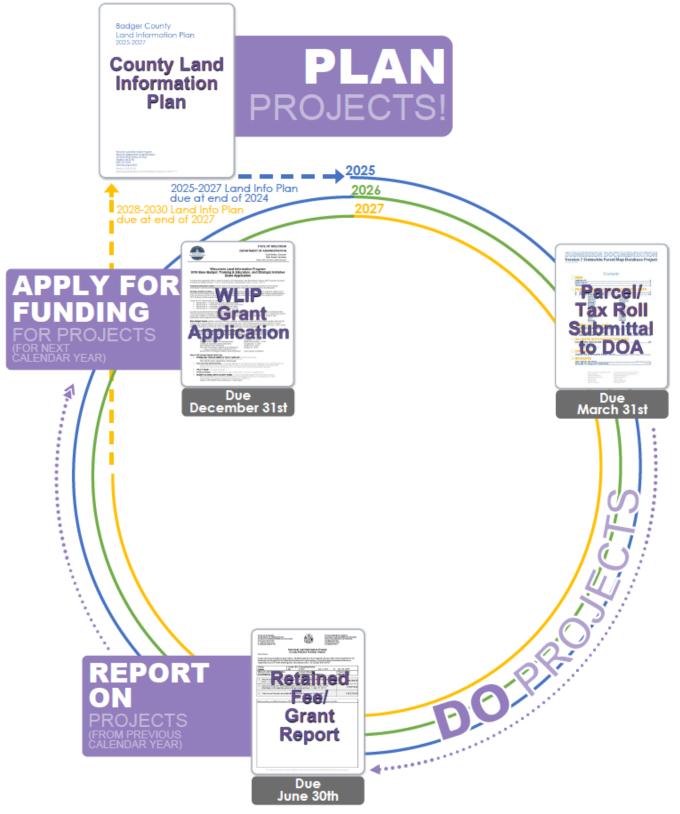


Figure 1. The WLIP Land Information Plan/Grant Project Cycle

### **Project Plan for PLSS (Benchmark 4)**

### **Project Title: Project Plan for PLSS (Benchmark 4)**

### **Project Description**

#### **Current status**

• See <u>PLSS Layer Status table</u> in Chapter 2.

### Planned approach

### Planned approach:

 Contract annually as budget allows for PLSS remonumentation with survey grade GPS coordinates and online tie sheets for all corners in the county

#### PLSS integration:

- Integration means the optimization and materially significant improvement of the geospatial accuracy of the digital parcel layer
- Integrating corners into the parcel fabric will be done in-house by the County GIS Specialist
- Center of sections were the last corners collected and some entire sections will need to be adjusted/redrawn

### **Missing Corner Notes**

Current plan is to remonument all corners

#### **County Boundary Collaboration**

 The County Surveyor and Highway Commissioner will work with neighboring counties to maintain new or existing PLSS including those corners affected by Highway projects (similar with Town roads)

### **Business Drivers**

• Completion and integration of PLSS will improve the geospatial accuracy of the parcel layer and other county land information system layers

### **Objectives/Measure of Success**

- The objective is to meet Benchmark 4 (Completion and Integration of PLSS) by: March 31, 2026
- Number of corners to be remonumented and/or rediscovered by 2027: 93 (1861 total)
- Number to have new coordinates established by 2027: 93 (1861 total)
- Accuracy class for these new coordinates by 2027: Survey grade
- Number of new corner coordinates to be integrated into the parcel fabric by 2027: 93 (1861 total)
- Number of new tie sheets to be posted online by 2027: 93 (1861 total)

### **Project Timeframes**

• Maintenance phase March 31, 2026 (Project started in 1970)

#### **Responsible Parties**

- County GIS Specialist on behalf of County Surveyor
- Grothman & Associates

### **Estimated Budget Information**

- See table at the end of this chapter (for budget information for the planning period 2025-2027)
- Estimated remaining cost for completion and integration of PLSS (to reach maintenance mode)
  - Estimated approximate average cost of remonumentation per corner: \$1,400
  - **Total cost of remaining remonumentation:** \$130,200 (\$1,400 x 93 corners)
  - Total cost of remaining integration of PLSS points into parcel layer: \$70,000
  - Cost of anything else remaining: \$45,000
  - Total remaining cost: \$245,200

## Project #1: NG9-1-1 Address Updates

### **Project Description**

- Update Address Point and Street Centerline layers to support the NG9-1-1 data model
- Land Info Spending Category: Address Points, Street Centerlines

### **Business Drivers**

- Use standard data model so data can be merged at the state level
- Meet data requirements of NG9-1-1 software

### **Objectives/Measure of Success**

- Accurate address mapping of 9-1-1 calls in dispatch center
- Improved integration and compatibility with other counties

### **Project Timeframes**

- 2026
- State deadlines for NG9-1-1 not definite and often delayed

### **Responsible Parties**

- County GIS Specialist
- GeoComm

### **Estimated Budget Information**

• See table at the end of this chapter

### **Project #2: Countywide Aerial Imagery**

### **Project Description**

- Collect new imagery every 5 years (since 2000)
- Land Info Spending Category: Orthoimagery

### **Business Drivers**

- High resolution aerial imagery is used in planning, conservation, real estate activities, recreation, emergency management, and navigation
- Older images are archived as a historical record
- Regular data collection needed for temporal analysis such as change detection of land and land features
- Used to verify changes in LiDAR
- Vital to Public Safety & Emergency Management, Land Use Planning & Zoning, and Land Conservation departments

### **Objectives/Measure of Success**

Project completion marked by images being available for viewing online locally and by the public

### **Project Timeframes**

Collect images spring of 2025, process images possibly into early 2026

### **Responsible Parties**

- County GIS Specialist
- Wisconsin Regional Orthoimagery Consortium (WROC)

### **Estimated Budget Information**

• See table at the end of this chapter

### Project #3: LiDAR

### **Project Description**

- Collect new LiDAR every 8 years. New LiDAR will be used for 5 year orthoimagery updates.
- Land Info Spending Category: LiDAR

### **Business Drivers**

- Stormwater and floodplain applications including mitigation
- FEMA compliant mapping
- EVAAL (Erosion Vulnerability Assessment for Agricultural Lands)
- NRCS Hydro Tools (Watershed Delineation)
- Accurate LiDAR is needed for 5 year ortho updates
- Regular data collection needed for temporal analysis such as change detection of land and land features
- Used in Ortho production

### **Objectives/Measure of Success**

Project completion marked by images being available for viewing online locally and by the public

### **Project Timeframes**

Collect data spring of 2026, process images possibly into early 2027

### **Responsible Parties**

- County GIS Specialist
- Ayres

### **Estimated Budget Information**

• See table at the end of this chapter

### Project #4: Organize Highway Plats

### **Project Description**

- Scan and index all paper plats
- Acquire new hanging racks for oversize paper plats
- Land Info Spending Category: Other Parcel Work

### **Business Drivers**

- Paper documents need an improved archival storage and retrieval system
- Officials need remote access to documents

### **Objectives/Measure of Success**

- Safe long-term storage of paper documents
- Proven ease of access to documents

### **Project Timeframes**

Study current storage method fall of 2026 for possible 2027 project

### **Responsible Parties**

- County Highway Commissioner
- Vendor Solution

### **Estimated Budget Information**

See table at the end of this chapter

### **Project #5: Scan Land Records**

### **Project Description**

- Scan Mortgage Books, Satisfaction and Assignment Books in ROD's Office
- About 100 books
- Includes project management, scanning, image enhancement, and importing
- Land Info Spending Category: Other Parcel Work

#### **Business Drivers**

- Provides for 100% of the land record books to be backed up
- Adds value to office, constituents, and abstract and title searchers

### **Objectives/Measure of Success**

- All data generated by project fully compatible with current software and imported
- 100% of the land record books in the vault in our software system, with document, volume and page numbers
- Show the Land Information Program is working for the County
- County government is able to sustain long term projects
- Perpetuate the modernized records into the future

### **Project Timeframes**

2026 (Project started in 2000)

### **Responsible Parties**

- County Register of Deeds
- Fidlar Technologies

### **Estimated Budget Information**

• See table at the end of this chapter

### Project #6: Surveying and Mapping Equipment

### **Project Description**

- Maintain GPS equipment for the Land Conservation Dept. and Zoning Dept. including GNSS, rangefinder, metal locator, replacement data collector hardware and software (Android/iOS)
- Mobile mapping cameras, Lowrance depth finder and online service, boat rental
- Land Info Spending Category: Hardware

#### **Business Drivers**

- Maintaining GPS equipment is important for measurement accuracy requirements
- Minimize conservation project delays due to GPS hardware problems
- This GPS equipment is also used at times for GIS data collection and Emergency Management damage assessment

### **Objectives/Measure of Success**

- Integration of GPS technology throughout multiple departments
- Improved accuracy of project mapping

### **Project Timeframes**

• 2025

### **Responsible Parties**

• E38 Survey Solutions

### **Estimated Budget Information**

• See table at the end of this chapter

### **Project #7: Training**

### **Project Description**

- Costs associated with participating in annual Professional Organization events including group membership dues, mileage, parking, meals, hotel, event registration fees
- Land Info Spending Category: Training and Education

### **Business Drivers**

- Align with state and regional goals
- Boost engagement
- Share knowledge
- Innovation

### **Objectives/Measure of Success**

- Improved processes
- New perspectives

### **Project Timeframes**

Annual events

### **Responsible Parties**

- Professional Associations
- Vendors

### **Estimated Budget Information**

See table at the end of this chapter

### Project #8: Education and Public Outreach

### **Project Description**

- Develop and maintain County Land Information outreach display
- Present outreach display at annual County Fair
- Trailer to transport and secure storage of exhibit
- Land Info Spending Category: Training and Education

### **Business Drivers**

- Educate public on land information services available
- Educate public on use of services

### **Objectives/Measure of Success**

- High number of display visitors
- Productive interaction of public with display
- Productive feedback on display content

### **Project Timeframes**

Annual county fair display early August

### **Responsible Parties**

Land Information Officer

### **Estimated Budget Information**

• See table at the end of this chapter

### **Project #9: Printing**

### **Project Description**

- Replace multi-function large format printer/scanner, purchase 36" rotary trimmer
- Subscribe to annual support contract
- Replenish printer supplies such as ink cartridges, printer heads, laminating film, display boards, and paper rolls
- Contract for printing of map books
- Land Info Spending Category: Administrative Activities and Management

#### **Business Drivers**

- Nearing end of current printer production and support lifecycle
- Minimize downtime of print services due to mechanical failure

### **Objectives/Measure of Success**

- Consistent large format printing with limited downtime
- Improved economy of printing

### **Project Timeframes**

Only needed upon failure of current hardware

### **Responsible Parties**

- GIS Specialist
- HP Inc
- Rockford Map Publishers

### **Estimated Budget Information**

See table at the end of this chapter

### **Ongoing Cost: File Survey Maps and Highway Plats**

### **Project Description**

- Ongoing staffing costs for office hours for contracted County Surveyor to file survey maps
- Land Info Spending Category: Other Parcel Work

### **Business Drivers**

• State statute requires all survey work in the county to be filed with the County

### **Objectives/Measure of Success**

- Safe long term storage of survey documents
- Convenient access to documents

### **Project Timeframes**

Ongoing cost, staffing

### **Responsible Parties**

County Surveyor

### **Estimated Budget Information**

• See table at the end of this chapter

### **Ongoing Cost: Annual Software Maintenance**

### **Project Description**

- Ongoing technology expenditures for annual software maintenance
- Land Info Spending Category: Software

### **Business Drivers**

- Annual increases in software costs
- Unknown when Land Conservation's USDA ESRI BPA (Blanket Purchase Agreement) software partnership may end

 $$225 \times 3 \text{ years} = $675$ 

### **Objectives/Measure of Success**

- Seamless, secure, and coordinated integration
- Reliable monitoring, backup, recovery, maintenance, and upgrades

### **Project Timeframes**

Ongoing cost, annual software maintenance renewal

### **Responsible Parties**

County Information Technology Director

### **Estimated Budget Information**

•	Transcendent	\$30,000 x 3 years = \$90,000
•	Transcendent Cloud	\$15,000 x 3 years = \$45,000
•	Fidlar AVID	\$15,000 x 3 years = \$45,000
•	Fidlar Cloud (Bastion)	\$8,800 x 3 years = \$26,400
•	ESRI GIS Advanced	\$3,500 x 3 years = \$10,500
•	ESRI GIS Cloud	\$200 x 3 years = \$600
•	ESRI LCC Standard	$2,200 \times 5 \times 3 \text{ years} = 33,000$
•	ESRI POWTS Creator	\$550 x 3 years = \$1,650
•	ESRI Spatial & 3D extensions	650 = x 3 years = 3,900
•	CAD LCC - Autodesk	\$4,500 x 3 years = \$13,500

• See table at the end of this chapter

GPS LCC – Field Genius app

## **Estimated Budget Info (All Projects) for Planning Period 2025-2026-2027**

## Estimated Budget Information

Land Info Plan Citations Page # or

			GRAND TOTAL	
Annual Software Maintenance	vendor Contracts	aiiiuai	3	L
Annual Software Maintenance	Vendor Contracts	In-house County Surveyor	Page 27	\$270,22
File Survey Maps and Highway Plats	Annual HP Support HP supplies Plat Book County Surveyor	\$1000 x each of 3 years \$1000 x each of 3 years \$4,000 \$10,000 X 3 years = \$30,000	Page 27	\$30,00
9) Printing	HP large format printer/scanner	\$10,000 \$1000 x each of 3 years	Page 26	\$20,00
8) Education and Public Outreach	Booth Displays Mobile Exhibit Trailer	\$2000 x 3 years = \$6,000 \$6,000	Page 26	\$12,00
7) Training		\$5,000 x 3 years = \$15,000	Page 25	\$15,00
6) Surveying and Mapping Equipment	Emlid GPS LCC & POWTS poles Mobile Mapping Cameras Rangefinder Survey Metal Locator Boat rental	\$3,000 each = \$6,000 \$5,000 \$2,000 \$1,000 \$500	Page 25	\$14,50
5) Scan Land Records	Fidlar (US Imaging) Contract	\$100,000	Page 24	\$100,00
4) Organize Highway Plats	Vendor Contract	\$20,000	Page 24	\$20,00
3) LiDAR	Ayres Contract	\$200,000		\$200,00
2) Countywide Aerial Imagery	WROC	\$75,000	Page 23	\$75,00
1) NG9-1-1 Address Updates	GeoComm Contract Lange Enterprises Contract	\$10,000 \$50 X 10 signs = \$500	Page 23	\$10,50
	Reimbursement for destroyed PLSS	\$1,000 X 5 X 3 years = \$15,000 Private Surveyors Contract		\$245,20
	Maintain public mapping website	\$10,000 X 3 years = \$30,000 In-house GIS Specialist		
	Integrate PLSS with parcel mapping	\$35,000 X 2 years = \$70,000 In-house GIS Specialist		
Project Plan for PLSS (Benchmark 4)	100% PLSS remonumentation with survey grade GPS coordinates	\$1,400 X 93 = \$130,200 Grothman Contract	Page 22	
Project Title	Item		Page # or section ref.	Project Total

Note. These estimates are provided for planning purposes only. Budget is subject to change.

### GREEN LAKE COUNTY LAND INFORMATION COUNCIL **September 11, 2024**

The meeting of the Land Information Council was called to order by County Clerk Liz Otto at 1:00 PM on Wednesday, September 11, 2024 in the County Board Room, Green Lake County Government Center. The meeting was held both in person and via virtual communication. The requirements of the open meeting law were certified as being met. The Pledge of Allegiance was recited.

**Present:** Curt Talma Jerry Stanuch

> Sheriff Mark Podoll Stefanie Meeker Renee Thiem – Korth Jess McLean Matt Kirkman Todd Morris

Liz Otto

Other County Employees Present: Ken Stephani, Finance Director

**Absent:** Don Lenz, Jeff Shadick

### **ELECTION OF CHAIR**

County Clerk Liz Otto called for nominations for Chair. Matt Kirkman nominated Curt Talma. Curt Talma nominated Todd Morris. No other nominations. Vote for Chair conducted with a show of hands – Talma – 9, Morris – 0. Talma declared Chair of the Council.

### **ELECTION OF VICE CHAIR**

Chair Talma called for nominations for Vice Chair. Renee Thiem-Korth nominated Todd Morris. Matt Kirman nominated Renee Thiem-Korth. No other nominations. Vote for Vice Chair conducted with a show of hands – Morris – 7, Thiem-Korth – 2. Morris declared Vice Chair of the Council.

### APPROVE MINUTES FROM 10/2/2023

Motion/second (Thiem-Korth/Kirkman) to approve the minutes from the October 2, 2023 meeting with no errors or corrections. Motion carried with no negative vote.

### **PUBLIC COMMENTS** – none

### **CORRESPONDENCE** - none

### JUNE 30<sup>TH</sup> 2024 GRANT REPORT FOR YEAR 2023

Land Information Officer Jerry Stanuch updated the Council on grant projects for 2023 including PLSS and scanning projects.

### REVIEW 2024 LAND INFO GRANT PROJECT PROGRESS

Land Information Officer Jerry Stanuch stated there are two main projects taking place in 2024 – 50 section corners and Stage 2 of the County Board proceedings book scanning.

<u>APPROVE THREE YEAR LAND INFORMATION PLAN 2025-2026-2027</u>
Land Information Officer Jerry Stanuch outlined the projects for the upcoming 3 years including finishing the section corner project in 2025, NextGen 911, the 5 year aerial imaging update, and ROD scanning. Register of Deeds Renee Thiem-Korth further explained the ROD project. Discussion held on the training budget to include the Real Property Lister in select trainings. *Motion/second* (Morris/McLean) to approve the 3 year plan with the removal of the words "no fee". Motion carried with no negative vote.

### DISCUSS 2025 LAND INFORMATION GRANT PROJECT APPLICATION

Land Information Officer Jerry Stanuch went over the 2025 WLIP Training & Education Grant Application request for \$1,000, the 2025 WLIP Strategic Initiative Grant Application request for \$20,000 for aerial imaging, and the 2025 WLIP Base Budget Grant Application for \$72,472 to cover integrating parcel mapping and to finish 26 PLSS corners. 17 corners will be done with fees to total the final 43 corners in 2025. *Motion/second (Kirkman/Morris)* to approve the application. Motion carried with no negative vote.

### **FUTURE COUNCIL ACTIVITIES**

**Future Meeting Dates**: September 2025 **Future Agenda items for action & discussion:** 

### **ADJOURNMENT**

Chair Talma adjourned the meeting at 1:22 PM.

Submitted by:

Liz Otto County Clerk