

WOOD COUNTY LAND INFORMATION COUNCIL

AGENDA

DATE: Wednesday December 11, 2024
TIME: 9:00am
LOCATION: Room 114
Wood County Courthouse
400 Market Street, Wisconsin Rapids, WI 54494

1. Call meeting to order
2. Introductions
3. Declaration of Quorum
4. Public Comment
5. Approval of Previous Meeting (07/24/24) Minutes
6. Round Table Discussion on Land Information
7. Approval of Wood County 2025-2027 Land Information Plan
8. Budget Update
9. Agenda Items for Next Meeting
10. Adjourn

Join by phone

+1-408-418-9388 United States Toll
Meeting number (access code): 2483 252 7254

Join by WebEx App or Web

<https://woodcountywi.webex.com/woodcountywi/j.php?MTID=mbc4fca7b84bb2dd320c9d7aee88f1c0d>

Meeting number (access code): 2483 252 7254
Meeting password: pbBsPgY6R85

WOOD COUNTY LAND INFORMATION COUNCIL
MINUTES

Date: Wednesday July 24, 2024

Location: Via Webex Teleconference and in person room 114

Attendees: Bill Leichtnam, District 19 Supervisor; Paul Bernard, Land Information Officer; Al Breu, District 6 Supervisor; Victoria Wilson, Planning & Zoning; Tony Bastien, Dispatch Manager; Bill Clendenning, District 15 Supervisor; Brian Spranger, First Weber Group; Kevin Boyer, County Surveyor

1. Chairperson Leichtnam called the meeting to order at 9:00 a.m.
2. Introductions were made.
3. Chairperson Leichtnam declared a quorum.
4. There was no public comment.
5. Motion by Breu/Bernard to approve the minutes of the previous meeting. Motion carried by voice vote.
6. Round Table Discussion on Land Information
 - Boyer recommends the council be aware of the increasing costs to operate.
 - Bernard discussed the difficulties he has had with obtaining building/assessor data from Market Drive. Spranger suggested he reach out to Representative Scott Krug and will put Paul in touch with him.
7. Land Information Project Updates
 - Paul went over the list of future projects included in the three year plan that is due by December 31st of 2024. The draft is due by September 30th so he will likely send the draft out to the council sometime in August. If there are any comments or proposed changes, an additional meeting can be requested by a member of the council.
8. Budget Update
 - Paul gave a brief update on the Land Records budget. Due to document recording numbers being down in the Register of Deeds office, there is talk of possibly increasing the cost of recording fees in the ROD office to offset the lack of income.
 - Paul has requested CIP funding and State NG911 Grant Funding to help cover the cost of 2025 air photos. We are pursuing a higher resolution air photo this time. There are various funding sources but with the outcome unknown, Land Records will be prepared to cover the entire cost of the project.
 - ARPA funding has been requested for a number of LiDAR derived deliverables. It is unclear whether we will receive this funding, but Land Records wants to be prepared to fund the project if we are able to receive a portion of ARPA funding.
9. Agenda Items for Next Meeting
 - Follow up discussion on obtaining building information from Market Drive and contact with Scott Krug.
 - Review of three-year plan draft and possible approval.

10. Chairman Leichtnam adjourned the meeting at 10:05 AM.

Minutes taken by Victoria Wilson, Planning and Zoning, and are in draft form until approved at the next meeting.

Wood County, Wisconsin



2025 - 2027 Land Information Plan

Wood County Land Information Office
400 Market Street
Wisconsin Rapids, WI 54494-4868
(715) 421-8469
www.woodcountywi.gov

Version: 2024-12-05

Approved & Adopted by Land Information Council on: xxxx-xx-xx

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EXECUTIVE SUMMARY

About this Document. This document is a land information plan for Wood County prepared by the land information officer (LIO) and the Wood County 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, Wood County was awarded \$71,000.00 in WLIP grants and retained a total of \$148,176.00 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 Wood 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 Wood 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. Eliminate or reduce redundancy through the coordination and modernization of existing services provided by and between departments and agencies participating in the program. Develop an efficient delivery system for products and services offered to the public, and improve the quality of products and services offered to the public.

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

Wood County Land Information Projects: 2023-2027	
Project #1	2025 Orthophotography Acquisition
Project #2	Historic Air Photo Scanning and Georeferencing
Project #3	Next Generation 911
Project #4	Research and Mapping of Right-of-Ways
Project #5	Buildings and Improvements Information
Project #6	Parcel Fabric, Maintenance and Accuracy Improvements
Project #7	Website, Data Hosting Services, Software and Hardware Maintenance
Project #8	GIS Metadata

The remainder of this document provides more details on Wood County and the WLIP, summarizes current and future land information projects, and reviews the county’s status in completion and maintenance of the map data layers known as Foundational Elements.

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 Wood County is meeting these benchmarks appears in the Foundational Elements section of this plan document.

County Land Information System History and Context

The Wood County Land Information Office was officially formed through County Board Resolution #90-8-8 on August 21, 1990. The Wood County Land Information Office was originally set up under the jurisdiction of the General Claims Committee, with the Wood County Register of Deeds named as the contact person. However with the passage of Resolution #92-6-8 on June 16, 1992, the Wood County Land Information Office was moved to the Wood County Planning and Zoning Office with the Planning and Zoning Committee as the oversight committee. Wood County Land Information Office has remained

in the Wood County Planning and Zoning Office ever since.

The first seventeen years of the Land Records Modernization Program (1989 – 2006) focused on establishing the foundation on which much of the program’s future would be built off of. During this time the County purchased Geographic Information Systems (GIS) software, established the staff positions of the Land Information Officer, and the Geographic Information Systems Specialist, and began developing foundational GIS data layers. In the early years of the land records modernization much of the focus was on project prioritization, needs assessments and data creation. The end of this period had many quantifiable achievements that involved significant advances in the county geographic information system. Of particular note was 2005, which saw the “completion” of digital parcel mapping, the first digital aerial photography acquisition and the ArcIMS Interactive GIS Map and Property Tax Data application launched.

Since 2005, much of the focus of the land records modernization has been on maintaining and improving the quality of GIS information, acquiring new data, implementing digital imaging projects, and integrating/linking records from departments and agencies, and developing ways to improve public access to records through web applications.

From the inception of the Land Records Modernization Program, the goals have remained relatively the same, however the objectives have continually been updated as a means to achieve the goals. The objectives have changed from a focus on technical issues and data creating in the early years of the program to maintaining, sharing, publishing, and utilizing data for decision making in recent years.

County Land Information Plan Process

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

County Land Information Plan Timeline

- DOA release of finalized instructions by March 31, 2024.
- April–September 2024: Counties work on land info plans.
- 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 county LIO, the Wood County Land Information Council, and others as listed below.

Wood County Land Information Council

Name	Title	Affiliation	Email	Phone
Paul Bernard	Land Records Coordinator, Land Information Officer	Wood County Planning and Zoning	paul.bernard@woodcounty wi.gov	715-421-8469
Kevin Boyer	County Surveyor	Wood County Surveyor	kevin.boyer@woodcountywi .gov	715-421-8528
Nancy Marti	Real Property Lister	Wood County Treasurer's Office	nancy.marti@woodcountywi .gov	715-421-8479
Bill Leichtnam	County Board Member	Wood County Board	wcdistrict19@woodcountyw i.gov	715-886-5107
Tiffany Ringer	Register of Deeds	Wood County Register of Deeds Office	tiffany.ringer@woodcounty wi.gov	715-421-8455
Brian Spranger	Realtor	First Weber	sprangerb@firstweber.com	715-572-7117
Tony Bastien	Dispatch Manager	Wood County Dispatch Center	tony.bastien@woodcountyw i.gov	715-421-8668
Heather Gehrt	Treasurer	Wood County Treasurer's Office	heather.gehrt@woodcounty wi.gov	715-421-8482
Allen Breu	Town of Marshfield Chair	Town of Marshfield	breutown@frontier.com	715-387-4222

* All of the above named people are members of the Wood County Land Information Council

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 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.

FOUNDATIONAL ELEMENTS

- PLSS
- Parcel Mapping
- LiDAR and Other Elevation Data
- Orthoimagery
- Address Points and Street Centerlines
- Land Use
- Zoning
- Administrative Boundaries
- Other Layers

PLSS

Public Land Survey System Monuments

Layer Status

PLSS Layer Status

	Status/Comments
Number of PLSS corners (section, ¼, meander) set in original government survey that can be remonumented in your county	• 2,615
Number of PLSS corners capable of being remonumented in your county that have been remonumented	• 2,615 (100%)
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 	• 2,615 (100%)
Number of survey grade PLSS corner coordinates integrated into county digital parcel layer (see definition of PLSS integration on page 37)	• 2,615 (100%)
Number of non-survey grade PLSS corner coordinates integrated into county digital parcel layer	• 0
Tie sheets available online?	• Yes https://gis.woodcountywi.gov/Land-Records-Viewer/
Percentage of remonumented PLSS corners that have tie sheets available online (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) and 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	• 0
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)?	<ul style="list-style-type: none"> • Romportl numbering system also known as Wisconsin Corner Point Identification System • Bureau of Land Management (BLM) Point ID • Wood County Internal 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	• 241
Number of PLSS corners remonumented along each county boundary	• 241 (100%)
Number of remonumented PLSS corners along each county boundary with survey grade coordinates	• 241 (100%)

Custodian

- County Surveyor and Land Information Office

Maintenance

- Ongoing maintenance of the PLSS will be accomplished through a planned, long-term program with the goal of occupying each corner every ten to fifteen years, depending on location, condition, and other significant factors (such as road construction). There is also an annual contract to ensure that corners affected by road construction are occupied both before and after the road construction occurs. There is a bounty program that awards surveyors for submitting tie sheets and coordinates.

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

Other Geodetic Control and Control Networks

High Accuracy Reference Network (HARN)

Layer Status

- Wood County completed a densification from stations within the Wisconsin High Accuracy Reference Network (HARN) in 1995 with the assistance of a WLIP grant. In total, 104 monuments are included in this network: 12 16" diameter x 5' deep concrete monuments built to DOT specifications, 5 NGS monuments that were already in existence, 75 6" diameter by 7' deep concrete and steel monuments designed by local surveyors, and 12 section corner monuments, all of which are Harrison or Waupaca Foundry cast iron.

Custodian

- County Surveyor and Land Information Office

Maintenance

- None

Standards

- The Wood County geodetic network was developed with three levels of accuracy, and complies with the WLIB Specifications and Guidelines to support Densification of the Wisconsin High Accuracy Reference Network (HARN) using GPS Technology.

Parcel Mapping

Parcel Geometries

Layer Status

- **Progress toward completion/maintenance phase:** 100% of the country's parcels are available in a commonly used digital GIS format.
- **Spatial Reference:** Parcels are edited in the following Projected & Geographic Coordinate System:
 - Projected Coordinate System: NAD 1983 HARN Wisconsin CRS Wood
 - Projection: Lambert Conformal Conic
 - Authority: EPSG
 - WKID: 8096
 - Geographic Coordinate System: NAD 1983 HARN
 - Authority: EPSG
 - WKID: 4152
- **Integration of tax data with parcel polygons:** Tax and assessment attributes are maintained by the Real Property Lister, these attributes are joined the Tax Parcel geometry during the publication process.
- **Online Parcel Viewer Software/App and Vendor name:** Wood County uses ESRI WebAppBuilder for ArcGIS to create and maintain the Online Parcel Viewer.
- **Unique URL path for each parcel record:**
 - Catalis Land Records Management Software – <https://pp-wood-co-wi-fb.app.landnav.com/Search/RealEstate/Search/ParcelRedirect?ParcelNumber=<value>>
 - Land Records Viewer – <https://gis.woodcountywi.gov/Land-Records->

Viewer/index.html?find= <value>

- where <value> is the Parcel Identification Number (PIN)

Custodian

- Land Records Coordinator and Real Property Lister

Maintenance

- **Update Frequency/Cycle:** Parcel geometry and attributes are updated on a regular basis. The tax parcels are typically updated weekly.

Standards

- Wood County has worked very hard to adhere to the Statewide Parcel Map Initiative standard. In recent years thanks to the acquisition of GCS Land Records Management Software and improvements in our Site Address Point Data we have been able to regularly publish to the Statewide Parcel Map Initiative schema. This schema has become Wood County's schema with very few modifications. While there is some metadata present on the layer itself and on our Open Data page, the most complete metadata is actually one and the same of the Statewide Parcel Map Initiative which can be found here: <https://www.sco.wisc.edu/parcels/data/>

Parcels Without Land Value

Layer Status

Number of parcels without a land value recorded to-date:

- 50 +/- as of date 09/30/2024
- **County geolocates/maps parcels for improvements only and without a land value by:**
 - Act 12 of 2023 amended sec. 70.17(1), Wis. Stats and removed the option of assessing improvements on leased land as personal property.
 - According to the Department of Revenue, state law provides two processes to list and value buildings, improvements, and fixtures that are on leased land, exempt land, forest cropland and managed forest land along with mobile homes not subject to a parking permit fee or otherwise exempt.
 - **A.** Under sec. 70.03, Wis. Stats. – update the existing parcel's listing and value to include all buildings, improvements, and fixtures.
 - **B.** Under secs. 70.17(3) or 70.27, Wis. Stats – create a separate parcel for the buildings, improvements, and fixtures. Sec. 70.17(3) provides for real property assessment with only an improvement value.
 - **For (B.) indicate how the county maps these parcels without land values**
 - By creating new polygons and parcel stacking

Assessment/Tax Roll Data

Layer Status

- **Progress toward completion/maintenance phase:** NA
- **Tax Roll Software/App and Vendor name:** Catalis Land Records Management Software

Custodian

- County Treasurer and Real Property Lister

Maintenance

- **Maintenance of the Searchable Format standard:** To maintain the Searchable Format standard, the county will continue to support the export scripts needed to format tax roll attributes to the searchable format in a way that they can be joined to parcel polygons.
 - **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

- s. 73.03(2a), Wis. Stats. Department of Revenue (DOR) – Powers and duties defined. Department of Revenue Property Assessment Manual – Chapter 5 and DOR format standard requested by DOR for assessment/tax roll data
- S. 59.72(2)(a), Wis. Stats. Presence of all nine “Act 20” attributes
- S. 59.72(2)(a), Wis. Stats. Crosswalk of attributes

ROD Real Estate Document Indexing and Imaging

Layer Status

- **Grantor/Grantee Index:** In process of back indexing. Deeds and miscellaneous records are indexed to approximately 1930. Mortgages are back indexed to approximately 1976. Lis Pendens indexed to June 1, 1996 (all are scanned). All this relates to our computer system, i.e., Avid via Fidar Technologies. We have paper grantor/grantee indexes from the beginning of Wood County (1856).
- **Tract Index:** PLSS based – Computer tract goes back to August 1, 1999. Paper tract available from 1856. Tract books are scanned into the computer system.
- **Imaging:** Not imaged are corporate records as well as 30+ year old mortgages.
- **ROD Software/App and Vendor Name:** Fidar Laredo/Tapestry/Avid

Custodian

- Register of Deeds

Maintenance

- New documents are recorded, scanned and indexed 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:** 2022
- **Accuracy:** QL1
- **Nominal Pulse Spacing:** 1 meter
- **Contractor’s standard, etc.:** A comparison of the ground survey versus LiDAR model values indicates a vertical root mean square error (RMSEz) of 0.399 feet. This is well within the FEMA specified vertical accuracy tolerance of 0.61 feet. RMSEz varies depending on land cover:
 - RMSEz – Urban 0.110 US Survey Feet
 - RMSEz – Low Grass 0.139 US Survey Feet
 - RMSEz – Tall Grass 0.319 US Survey Feet
 - RMSEz – Low Trees 0.322 US Survey Feet
 - RMSEz – Tall Trees 0.397 US Survey Feet
- **Next planned acquisition year:** N/A

Custodian

- Land Records Coordinator

Maintenance

- LiDAR data is not actively maintained or updated.

Standards

- USGS Lidar Base Specification

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

- LiDAR derivatives are listed below and are derived from the 2022 LiDAR flight:

- Classified Point Cloud
- Hydro Flattening Breaklines
- Bare Earth DEM (Digital Elevation Model)
- First Return DSM (Digital Surface Model)
- 1 Foot Contours
- Intensity Imagery
- Hydro-Enforced DEM (Digital Elevation Model)
- Culvert Inventory
- Closed Depressions
- Catchment Polygons
- Flow Accumulation Polylines

Custodian

- Land Records Coordinator

Maintenance

- LiDAR data is not actively maintained or updated.

Standards

- USGS LiDAR Base Specification

Orthoimagery

Orthoimagery

Layer Status

- **Most recent acquisition year:** 2020
- **Resolution:** 6 Inch
- **Contractor's standard:** ASPRS Class II horizontal accuracy specifications at 1" = 100' map scale. The horizontal accuracy meets or exceeds 2.0 feet RMSE using the National Standards for Spatial Data Accuracy (NSSDA) standards.
- **Next planned acquisition year:** 2025

Custodian

- Land Records Coordinator

Maintenance

- New Orthoimagery is acquired every five years through the Wisconsin Regional Orthophotography Consortium (WROC) program. The next flight is planned for 2025.

Standards

- National Map Accuracy Standards

Historic Orthoimagery

Layer Status

Wood County, like most other counties has a wide variety of historic aerial imagery dating as far back as the mid-thirties. The most comprehensive list of historic aerial imagery can be found on the Wisconsin State Cartographer's Office (SCO) website. The website allows users to search any county in Wisconsin for imagery, and submit updates or revisions to the index if necessary. Most of the historic imagery for Wood County is not in a digital format that is usable in the GIS. Wood County does not have the original film or images for most of the historic aerial imagery because the county did not commission the acquisition of the imagery.

The first time that Wood County contracted to have the entire county flown was in 2005. This 18" black and white project was part of a consortium coordinated by the North Central Regional Planning Commission. Five years later the county acquired 18" color digital orthophotography through the Wisconsin Regional Orthophotography Consortium (WROC).

Custodian

- Land Records Coordinator

Other Types of Imagery

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

Layer Status

- Wood County has only contracted for traditional Imagery in the past. There has been thoughts of having drone imagery, satellite imagery or oblique imagery but it has been hard to justify or prioritize over other projects.

Address Points and Street Centerlines

Address Point Data

Layer Status

- Site address points exist for every known address in the county. There has been a considerable amount of effort spent in recent years to make sure our Site Address Point dataset includes every single address in the county, much of this effort was focused on reconciling the Tax Roll, InfoUSA, ALI and local utility company address lists.
- Wood County Emergency Management Agency is the county authority on addressing and it assigns new addresses for most municipalities. Several municipalities do their own addressing – the Town of Grand Rapids, Village of Biron, Village of Rudolph, Village of Milladore, Village of Port Edwards, City of Pittsville, City of Marshfield and City of Wisconsin Rapids.

Custodian

- Wood County Emergency Management Agency
- Land Records Coordinator
- Various Municipalities that do their own addressing

Maintenance

- Site address points are created or modified upon notification by an addressing authority.

Standards

- Wisconsin GIS NG9-1-1 Data Standard (working towards)
- Wisconsin Land Information Association Address Point Data Standard (working towards)
- Computer Aided Dispatch vendor (Computer Information Systems) specific requirements

Building Footprints

Layer Status

- Following the 2020 Orthophotography flight, The Cities of Marshfield and Wisconsin Rapids both contracted out for various planimetrics including building footprints. Wood County then did a separate contract for digitizing building footprints that were not included in either cities contract. The combination of all three contracts has produced county-wide building footprints.

Custodian

- Land Records Coordinator

Maintenance

- Building footprints are based off of the most recent orthophotography. Wood County may work with the Cities of Marshfield and Wisconsin Rapids in 2025 following the next flight to update the Building Footprints.

Standards

- Internal Business Needs

Other Types of Address Information

Layer Status

- Following ESRI's Local Government information model, Wood County has developed a few enhancing features to aid in dispatching, emergency management and other business needs. These features are listed and briefly explained below:
 - Address Points – the theoretical point on the road centerline at which a given address has been assigned.
 - Address Entrance Points – the point at which a vehicle would gain access to a

given address, typically a driveway entrance.

- Point to Site Connection Lines – a line that connects the address point to the site address point.
- These address enhancing features are only available in rural areas.

Custodian

- Land Records Coordinator

Maintenance

- These address enhancing features are typically updated with each new orthophotography flight. We are currently looking into GPSing new features as addresses are assigned.

Standards

- ESRI Local Government Information Model

Street Centerlines

Layer Status

- All public and private street and highway centerlines are mapped for the county.
- Centerline data is very attribute rich supporting all business needs of the county.
- The road centerlines were re-digitized after the 2020 orthophotography flight which was a massive improvement over our previous road centerline dataset in terms of geometry.

Custodian

- Land Records Coordinator

Maintenance

- Data is updated when new roads are created, existing roads are vacated or if road names are changed and/or clarified.

Standards

- Wisconsin GIS NG9-1-1 Data Standard
- Wisconsin Land Information Association Street Centerline Data Standard
- Computer Aided Dispatch vendor (Computer Information Systems) specific requirements

Rights of Way

Layer Status

- Approximate right-of-way is available for all of Wood County. A comprehensive determination of right-of-way ownership and transfers has not been completed.
- **How maintained:** The Right-of-Way is maintained as a subset of the Simultaneous Conveyance Division in the ESRI ArcGIS Pro Parcel Fabric. It is selected out as its own stand-alone layer during our publication process.

Custodian

- Land Records Coordinator

Maintenance

- Updated regularly in conjunction with our parcel mapping to reflect surveys, transportation plats and deeds.

Standards

- Internal Business Needs

Trails

Layer Status

- Recreation trail routes are maintained in the county parks as well as bicycle and pedestrian trails throughout the county. Snowmobile trails for the entire county are mapped, and ATV trails on county property are mapped. Public roads that are open to ATV traffic are mapped.

Custodian

- Land Records Coordinator

Maintenance

- New trail segments are GPS'd as they are added. Existing trails are GPS'd as time allows.

Standards

- Internal Business Needs

Land Use

Current Land Use

Layer Status

- Land use maps are available for all townships in Wood County and created using the Land Based Classification Standards. Land use mapping for cities and villages will be completed in the future on as-needed basis. Land use codes that are used in the tax parcel database are compliant with the Department of Revenue Land Use Classification System.

Custodian

- Planning and Zoning

Maintenance

- Land use maps are updated as projects require and based off of the most recent imagery available at that time. Most townships have not been remapped since the creation of the layer over 10 years ago.

Standards

- American Planning Association Land Based Classification Standards (LBCS)

Future Land Use

Layer Status

- Future Land Use was created as a product of the Wood County Comprehensive Plan that was completed in 2010. Future Land Use is based off of wetlands, floodplains, and water bodies that limit or prohibit future development.

Custodian

- Planning and Zoning

Maintenance

- Future Land Use maps would be updated along subsequent comprehensive plans.

Standards

- s. 66.1001, Wis. Stats. Comprehensive planning.

Zoning

County General Zoning

Layer Status

- Not administered by county.

Shoreland Zoning

Layer Status

- The county does maintain a GIS representation of county shoreland zoning boundaries. Shoreland areas were determined by buffering the hydrography layer as defined by the County Shoreland Zoning Ordinance. This layer is only a graphical representation and not an official boundary delineation.

Custodian

- Planning and Zoning
- Land Records Coordinator

Maintenance

- Shoreland Zoning buffers will be updated as hydrography layers are improved.

Standards

- Wood County Shoreland Zoning Ordinance

Farmland Preservation Zoning

Layer Status

- Not administered by county.

Floodplain Zoning

Layer Status

- 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.
- In 2010, Federal Emergency Agency (FEMA) initiated a floodplain mapping update. Although the mapping used the best available information, accurate LiDAR elevation data is now available and should be used to accurately delineate floodplains.

Custodian

- Federal Emergency Management Agency
- Land Records Coordinator

Maintenance

- Updated when FEMA updates their data.

Standards

- Standards set by Federal Emergency Management Agency

Airport Protection

Layer Status

- Not administered by county.

Municipal Zoning Information Maintained by the County

Layer Status

- There are many towns, cities and villages that are zoned in Wood County. With the exception of the City of Wisconsin Rapids and the City of Marshfield, Wood County works with each zoned municipality to create updated GIS layers for Municipal Zoning. These layers are then used in web applications specific to each municipality that Wood County hosts.
- Extra-Territorial Boundaries are maintained for the three municipalities that have the boundaries – Village of Port Edwards (1.5 miles), City of Marshfield (3 miles), City of Wisconsin Rapids (3 miles).

Custodian

- Planning and Zoning
- Land Records Coordinator

Maintenance

- Municipal Zoning is maintained on a regular basis but this does depend heavily on which municipality it is for as some municipalities are more expedient in notifying the county of updates.

Standards

- Internal Business Needs

Administrative Boundaries

Civil Division Boundaries

Layer Status

- The civil boundaries within Wood County were constructed using our parcel data, PLSS data and annexation documents.

Custodian

- Land Records Coordinator

Maintenance

- As needed to reflect annexations

Standards

- Consolidated Boundary Annexation Survey (CBAS)

School Districts

Layer Status

- **Progress toward completion/maintenance phase:** in Maintenance Phase
- **Relation to parcels:** School Districts is a field that is found in the tax database and is populated for every tax parcel record in Wood County
 - **Attributes linked to parcels:** the "SCHOOLDIST (School District)" and "SCHOOLDISTNO (School District Number)" fields that are found in our tax parcels are populated directly from the tax database.

Custodian

- Real Property Lister
- Land Records Coordinator

Maintenance

- As needed

Standards

- Consolidated Boundary Annexation Survey (CBAS)

Election Boundaries

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

Layer Status

- The county created municipal ward, aldermanic and supervisory districts during the 2020 redistricting.

Custodian

- County Clerk
- Land Records Coordinator

Maintenance

- As needed to reflect annexations and elections.

Standards

- Consolidated Boundary Annexation Survey (CBAS)

Emergency Service Boundary – Law/Fire/EMS

Layer Status

- **Law Enforcement:** Law Enforcement boundaries are fully integrated with the Emergency Service Boundaries and are extracted during our publication process.
- **Fire:** Fire boundaries are fully integrated with the Emergency Service Boundaries and are extracted during our publication process.
- **EMS:** EMS boundaries are fully integrated with the Emergency Service Boundaries and are extracted during our publication process.

Custodian

- Land Records Coordinator
- Dispatch Manager

Maintenance

- The Emergency Service Boundaries are updated as needed.

Standards

- Wisconsin GIS NG9-1-1 Data Standard (working towards)
- Computer Aided Dispatch vendor (Computer Information Systems) specific requirements

Public Safety Answering Points (PSAP) Boundary

Layer Status

- **PSAP Boundary:** The PSAP Boundary is one and the same as the Wood County Boundary.

Custodian

- Land Records Coordinator
- Dispatch Manager

Maintenance

- Update as needed

Standards

- Wisconsin GIS NG9-1-1 Data Standard (working towards)
- *Computer Aided Dispatch vendor (Computer Information Systems) specific requirements

Provisioning Boundary

Layer Status

- The Provisioning Boundary is one and the same as the Wood County Boundary.

Custodian

- Land Records Coordinator
- Dispatch Manager

Maintenance

- Update as needed

Standards

- Wisconsin GIS NG9-1-1 Data Standard
- Computer Aided Dispatch vendor (Computer Information Systems) specific requirements

Native American Lands

Layer Status

- All Native American lands are included in the County Tax Parcels and can be queried and mapped on request.

Custodian

- Real Property Lister
- Land Records Coordinator

Maintenance

- The Native American Lands are maintained in the tax parcel layer so that changes in ownership reflected in the tax database will be reflected in the tax parcels.

Standards

- Statewide Parcel Map Initiative Standards

Other Administrative Districts

Layer Status

- Wood County has 7 recreational parks, 38,000 acres of county forest land and 18,500 acres of Wood County State Wildlife area. All public lands are included in the County parcel mapping database. Additionally, public land amenities such as beaches, campgrounds, boat access, etc. are mapped to support map creation.

Custodian

- Parks and Forestry
- Land Records Coordinator

Maintenance

- Updated as needed.

Standards

- Internal Business needs

Other Layers

Hydrography Maintained by County or Value-Added

Layer Status

- Hydrography has been digitized off of the 2020 Air Photo.

Custodian

- Land Records Coordinator

Maintenance

- Hydrography layers are edited against aerial photography and LiDAR layers as time allows.

Standards

- Internal Business Needs
- USGS Elevation-Derived Hydrography Specifications

Cell Phone Towers

Layer Status

- Cell phone towers are mapped to support Dispatch.

Custodian

- Land Records Coordinator

Maintenance

- Updated as needed

Standards

- Computer Aided Dispatch vendor (Computer Information Systems) specific requirements

Bridges and Culverts

Layer Status

- Wood County does not currently have a layer for Bridges, we have been using the GIS data for bridges from the Wisconsin Department of Transportation that has been sufficient for our business needs.
- The Wood County Highway Department has started a culvert inventory that covers County Highways.

Custodian

- Highway Department
- Land Records Coordinator

Maintenance

- The Wood County Highway Department continues to build and maintain their culvert inventory. We are currently looking into getting a LiDAR derived culvert inventory which would result in a much more complete dataset in terms of geometry.

Standards

- Internal Business Needs

Non-Metallic Mining

Layer Status

- The Non-Metallic Mining layer is actively maintained by the Wood County Conservation department. Mining sites are visited periodically and acreages are tracked on each site.

Custodian

- Land and Water Conservation

Maintenance

- Maintenance is ongoing and sites are periodically visited.

Standards

- Internal Business Needs

Railroads

Layer Status

- Railroad centerlines were digitized off of the 2020 aerial photography.

Custodian

- Land Records Coordinator

Maintenance

- Updated as needed.

Standards

- Internal business needs

3 LAND INFORMATION SYSTEM

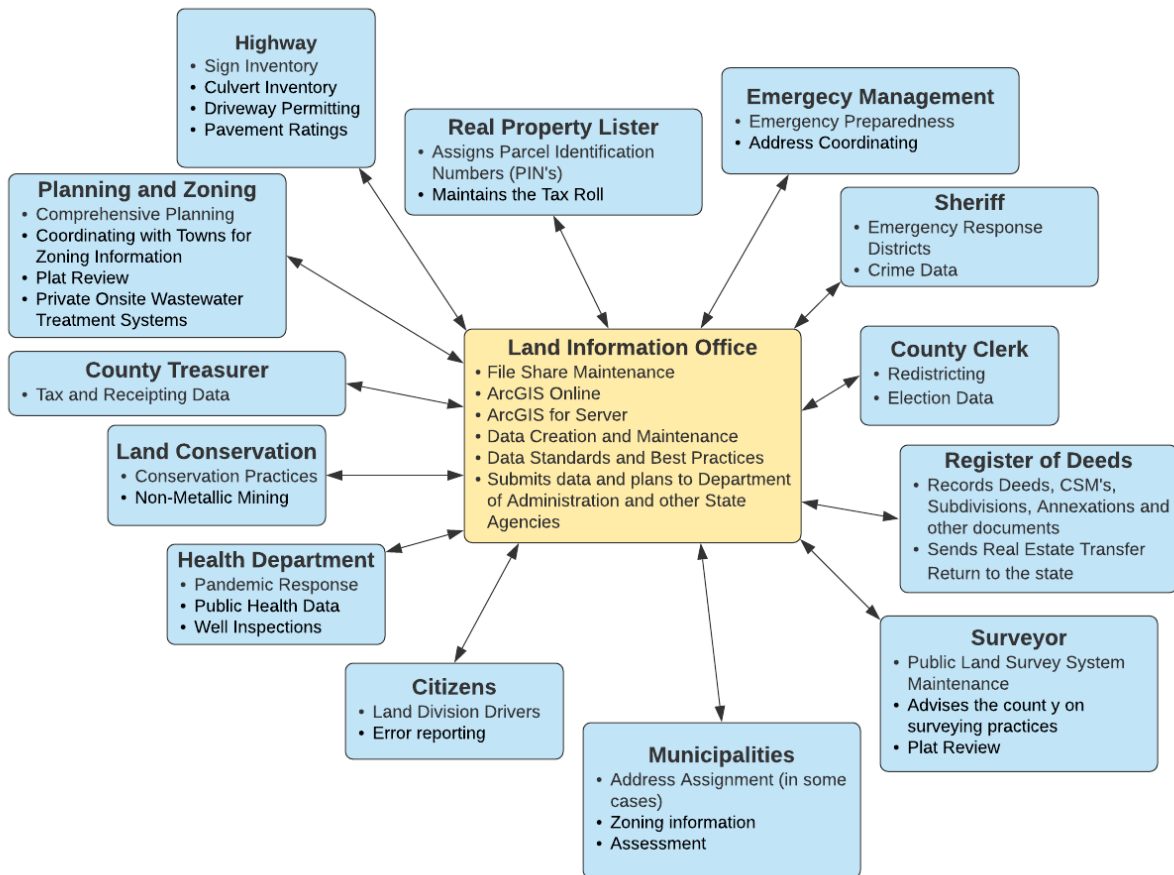
The WLIP seeks to enable land information systems that are both modernized and integrated. Integration entails the coordination of land records to ensure that land information can be shared, distributed, and used within and between government at all levels, the private sector, and citizens.

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

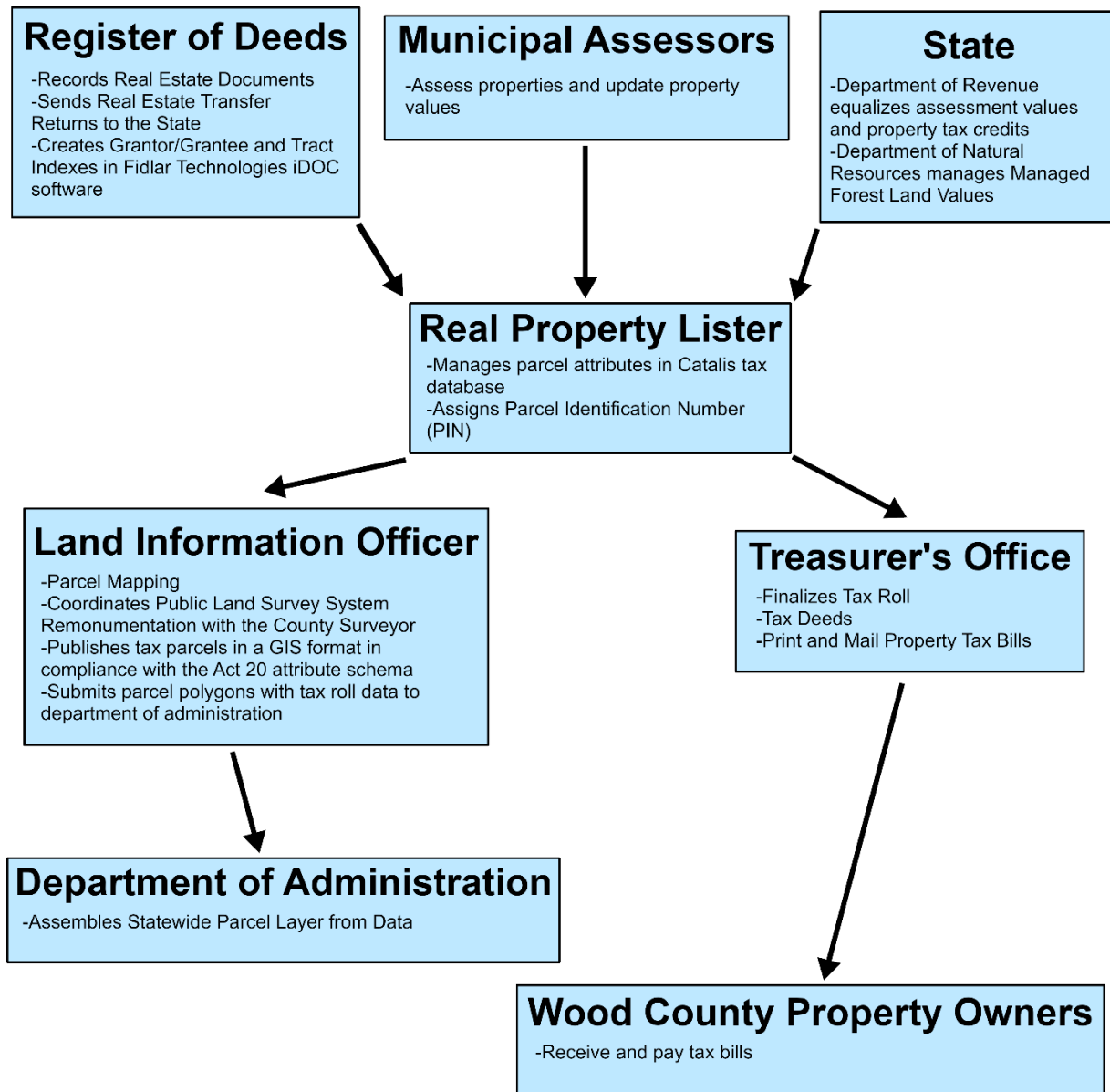
The design, development, and implementation of a land information system that contains and integrates, at a minimum, property and ownership records with boundary information, including a parcel identifier referenced to the U.S. public land survey; tax and assessment information; soil surveys, if available; 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 Diagram of County 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.

The Wood County Land Information System runs on Wood County's local area network and is supported by the Information Systems (IS) Department. The IS Department is committed to supporting all activities of the Land Records Modernization Program and has been a reliable contributor to system development and support.

Wood County Land Information uses two Windows Server 2019 virtual machines (DB-GIS20 and WEB-GIS), Amazon Web Services and ArcGIS Online. DB-GIS is the file server, WEB-GIS is the web server. Both of these machines run on ArcGIS Server Standard Workgroup to support data editing and publishing web services. Amazon Web Services and ArcGIS Online are employed to decrease demand on WEB-GIS, data backups and document storage.

Hardware

- DB-GIS20 Windows Server 2019 virtual server
- WEB-GIS Windows Server 2019 virtual server
- Trimble Geo 7x GPS Unit
- Trimble R1 GPS Unit

Software

- ArcGIS for Server
- ArcGIS Desktop
- **County currently uses ArcGIS Pro:** Yes
- **County plans to upgrade to ArcGIS Pro:** Yes – Already upgraded

Website Development/Hosting

- All website development is done in-house, ArcGIS Online or Amazon Web Services (AWS).
- Web Applications are developed using ArcGIS Online and ArcGIS Web AppBuilder Developer Edition.

Metadata and Data Dictionary Practices

Metadata Creation

- **Metadata creation and maintenance process:** Metadata is created and maintained for Wood County GIS layers that are shared in our open data portal. It is a long term goal to have solid metadata on all Wood County GIS layers.

Metadata Software

- **Metadata software:**
 - The software does generate metadata consistent with the FGDC Content Standard for Digital Geospatial Metadata, and ISO geographic metadata standard 19115.
 - ArcCatalog is used for Metadata creation.
- **Metadata fields manually populated:** Summary, Abstract, Use Limitations and occasionally data layer fields are manually populated.

Municipal Data Integration Process

- The cities of Marshfield and Wisconsin Rapids are the only two municipalities with in-house GIS staff. Of those two, Marshfield edits their own parcel data in GIS. Marshfield shares parcels, addresses, roads etc. to incorporate in countywide datasets. Wisconsin Rapids accesses county parcel and other base layers through an ArcGIS Server Geodata Service.
- In the past, the Land Information Office has provided data to any contractors that are working on projects for municipalities. In fact, some contractors even incorporate county web services via REST into municipal projects.

Public Access and Website Information

Public Access and Website Information (URLs)

Public Access and Website Information

GIS Webmapping Application(s)

Link - URL	GIS Download Link – URL	Real Property Lister Link - URL	Register of Deeds Link - URL
https://gis.woodcountywi.gov/	https://wood-county-geohub-woodwi.hub.arcgis.com/	https://pp-wood-co-wi-fb.app.landnav.com/	https://www.woodcountywi.gov/departments/rod/landrecords.aspx

Single Landing Page/Portal for All Land Records Data

URL

<https://www.woodcountywi.gov/Departments/PZ/LandRecords.aspx>

Web Services/REST End Points

URL

<https://gis.woodcountywi.gov/gis/rest/services>

County Webpage with Link to Statewide Parcel Map (www.sco.wisc.edu/parcels/data)

URL

<https://www.woodcountywi.gov/Departments/PZ/LandRecords.aspx>

Municipal Website Information

Municipal Website	Municipal Website URL
City of Wisconsin Rapids	https://www.wirapids.org/maps-gis.html
City of Marshfield	https://comgis.ci.marshfield.wi.us/mpv/

Data Sharing

Data Availability to Public

Wood County makes land records information available according to the requirements of the Wisconsin Open Records Law. The public has free, both in terms of cost and barriers, access to land records through the county interactive land records viewer map, The Land Records Portal and Open Data Portal. Even costly data like orthophotography and LiDAR are available for free.

Data Sharing Restrictions and Government-to-Government Data Sharing

Data Sharing Restrictions

- Wood County imposes no use restrictions. Users are free to share and adapt the data for any purpose, even commercially. We do ask that users give appropriate attribution of our source data.

Government-to-Government Data Sharing

- Data sharing is encouraged because of the resulting cost savings and efficiencies. The county has used both formal and informal agreements to share data when necessary. Wood County does not require agreements for Government-to-Government data sharing.

Training and Education

The Land Information Office has offered GIS training sessions that were open to other governmental agencies and the general public. We support training opportunities offered by the Wisconsin Land Information Association (WLIA) and ESRI Wisconsin User Group (EWUG) because they are effective ways of providing information on timely topics at a reasonable price.

All county staff have internet access to online training or coursework, and participation in training sessions

is encouraged. On occasion, educational sessions and demonstrations are presented to staff, elected officials and the general public.

WLIP Training and Education funds are used to supplement the cost of sending staff to training at conferences and workshops.

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.

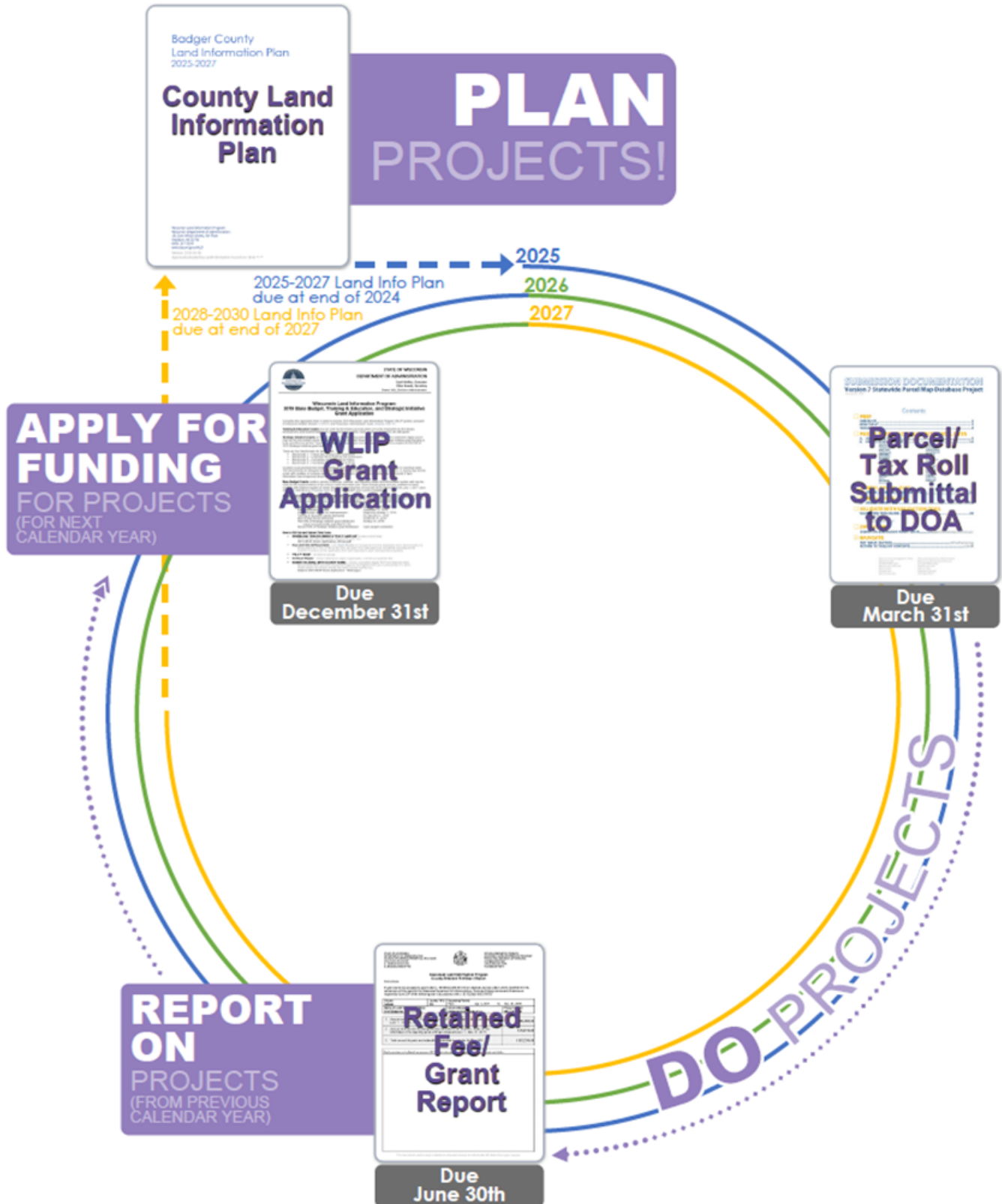


Figure 1. The WLIP Land Information Plan/Grant Project Cycle

Project Plan to Maintain Searchable Format (Benchmarks 1 & 2)

Project Title: Project Plan to Maintain Searchable Format (Benchmarks 1 & 2)

Project Description

How Searchable Format Will Be Maintained

- Wood County will continue to support the export scripts needed to format tax roll attributes to the searchable format in a way that they can be joined to parcel polygons.

Business Drivers

- The searchable format is used by all users of the county land information system.

Objectives/Measure of Success

- The objective is to continue to meet the Searchable Format for Benchmarks 1 & 2 (Parcel and Zoning Data Submission, Extended Parcel Attribute Set Submission).

Project Timeframes

- Maintenance of the Searchable format is an ongoing effort and data is submitted to the Department of Administration by March 31st annually.

Responsible Parties

- Land Records Coordinator
- Real Property Lister

Estimated Budget Information

- Staff time should be minimal barring any extensive change to the Searchable Format.
- Since our publication routines publish to the Searchable Format on a regular basis, the cost of Benchmarks 1 & 2 maintenance has been placed in Project #7 – Parcel Fabric Maintenance and Accuracy Improvements.

Project Plan for PLSS (Benchmark 4)

Project Title: Project Plan for PLSS (Benchmark 4)

Project Description

Current Status

- **Tally of the total number of corners:** 2615
- **Remonumentation status:** 2615
- **Coordinate status (accuracy class) if known:** Survey-Grade

Planned Approach

- Since 2018, Wood County has enjoyed 100% PLSS monumentation with survey grade coordinates. PLSS maintenance will be accomplished through:
 - Monumentation projects which will ensure that each corner is visited every 10-15 years as well as ensuring that PLSS corners effected by road construction are visited before and after construction.
 - Bounty Program that awards surveyors for submitting tie sheets and survey-grade coordinates

Missing Corner Notes

- **Documentation for any missing corner data:** None

County Boundary Collaboration

- The Wood County Surveyor notifies surrounding counties with updated tie sheets and coordinates.

Business Drivers

- Completion and integration of PLSS will improve the geospatial accuracy of the parcel layer and

- other county land information system layers.
- Wood County has spent considerable resources to ensure that every monument has been visited, continuous maintenance is necessary to stay at this high standard.
- PLSS monuments are the fundamental building blocks for land descriptions and property ownership.
- Surveyors, engineers, realtors and other professionals rely on accurate land information.
- Parcel Mapping improvements

Objectives/Measure of Success

- The objective is to meet Benchmark 4 (Completion and Integration of PLSS) by 1/1/2027
- Number of corners to be remonumented and/or rediscovered by 2027: 60 +/-
- Number to have new coordinates established by 2027: 60+/-
- Accuracy class for these new coordinates by 2027: survey grade
- Number of new corner coordinates to be integrated into the parcel fabric by 2027: all
- Number of new tie sheets to be posted online by 2027: 60+/-
- Note these new remonumentations and tie sheets reflect routine road construction and PLSS Maintenance.

Project Timeframes

- PLSS monumentation is an ongoing effort and will run the entire plan period.

Responsible Parties

- County Surveyor
- Contracted Surveyors
- Land Records Coordinator

Estimated Budget Information

- \$ 5,000

Project #1: 2025 Orthophotography Acquisition

Project Description/Goal

- Obtain countywide 3" Resolution Orthophotography in 2025.
- **Land Info Spending Category:** Orthoimagery

Business Drivers

- Orthophotography has become one of the most important foundational elements, it supports all sorts of applications that are important for many county operations.
- Many departments both within and outside of the county are able to save a ton of time in field work as air photos can accurately depict ground conditions.
- The acquisition of higher resolution air photos has been facilitated by the Wisconsin Regional Orthoimagery Consortium (WROC), along with other potential grant opportunities.

Objectives/Measure of Success

- Delivery of Orthoimagery meeting all project specifications

Project Timeframes

Timeline – Project #1 Title		
Milestone	Duration	Date
Project planning, getting project partners and contracts signed.	–	2024-2025

Orthoimagery Flight	-	Spring 2025
Orthoimagery Delivered	-	Fall 2025

Responsible Parties

- WROC Contractor

Estimated Budget Information

- \$ 150,000 for base deliverables

Project #2: Historic Air Photo Scanning and Georeferencing

Project Description/Goal

- Wood County has contracted to do a new air photo flight every 5 years since 2005. There are many air photo flights that have taken place before then dating back to the 1930's.
- Many of the previous flights are not available in a digital format and none are georeferenced to a standard where we could use them as a basemap.
- There are around 15 historic flights that would be of interest to Wood County.
- **Land Info Spending Category:** Orthoimagery

Business Drivers

- See historic land use and development
- See where roads and railroads had been previously laid out
- Once hard-to-access information would be integrated seamlessly into online and public-facing applications.
- Wisconsin Society of Land Surveyors (WSLS) has expressed interest in the 1938 Air Photos.

Objectives/Measure of Success

- Scan, index and georeferenced historic air photos for Wood County, producing base maps that are suitable for use in our online applications.

Project Timeframes

- The main goal is to set up a workflow where we can start scanning, indexing and georeferencing historic air photo flights at the rate of about 1 every year.

Responsible Parties

- Land Records Coordinator

Estimated Budget Information

- Since we do not plan to contract any work for this project out, the project cost has been made a part of "Ongoing Costs Not Associated With a Specific Project".

Project #3: Next Generation 911

Project Description/Goal

- The Wisconsin Department of Military Affairs (DMA) in collaboration with the Wisconsin Land Information Association (WLIA) has developed a Standards and Best Practices for Road Centerlines, Site/Structure Address Points, PSAP Boundaries, Emergency Service Boundaries and Provisioning Boundaries. Wood County continues to work at getting data ready for Next Generation 911 implementation in accordance with this standard.
- **Land Info Spending Category:** Address Points, Street Centerlines

Business Drivers

- State government is preparing for Next Generation 911 implementation
- Improve existing data for Site Address Points and Street Centerlines that support dispatch and many other county functions.

Objectives/Measure of Success

- County GIS data is NG911 compliant

Project Timeframes

- Wood County will continue to work towards Next Generation 911 compliance throughout this planning period.

Responsible Parties

- Land Records Coordinator
- Possible Consultant

Estimated Budget Information

- \$50,000

Project #4: Research and Mapping of Right-of-Ways

Project Description/Goal

- There are many locations along Wood County's roadways where right-of-way information could be clarified with a survey.
- **Land Info Spending Category:** Digital Parcel Mapping, Other Parcel Work

Business Drivers

- Many road records exist in the form of Transportation Project Plats, Right-of-Way Plats and town road records. While these are great reference points, there are still some areas that lack enough information to accurately map or locate where the right-of-way should be.
- Most questions in the Surveyor's Office are about Right-of-Way issues.
- Better Right-of-Way information for the parcel mapping.

Objectives/Measure of Success

- Surveys performed on road Right-of-Ways.
- Integration of better survey information into the parcel mapping.

Project Timeframes

- To Be Determined

Responsible Parties

- Land Records Coordinator
- County Surveyor
- County Highway Department
- Contracted Surveyor

Estimated Budget Information

- \$150,000

Project #5: Buildings and Improvements Information

Project Description/Goal

- Create and improve GIS layers that house information on buildings and improvements
- **Land Info Spending Category:** Other Parcel Work

Business Drivers

- In 2020, Wood County compiled a county-wide building footprint layer for the first time. There are many attributes to add to these buildings that remain in a very siloed workflow.
- Attributes maintained by Assessors and Municipalities such as construction year, building permits, remodel year are all accessible in a varying degree of difficulty.
- Collecting these types of attributes will be very valuable for realtors, general public and many county departments.

Objectives/Measure of Success

- Housing Buildings and Improvements information in Wood County's GIS.
- Sharing through existing web applications the information collected in this project.

Project Timeframes

- This project will be worked on throughout this plan period.

Responsible Parties

- Land Records Coordinator
- Possible Contractor

Estimated Budget Information

- \$100,000

Project #6: Parcel Fabric, Maintenance and Accuracy Improvements

Project Description/Goal

- Wood County migrated to the ArcGIS Pro Parcel Fabric in 2020. While parcel mapping has improved steadily since the initial implementation in 2005, there will have to be some pretty focused effort spent to get the most out of ESRI's parcel fabric. This may include remapping of whole areas to snap to our survey control, and accurately delineate all "Parcels" in the parcel fabric to include Tax Parcels, Subdivisions, Subdivision Lots, Subdivision Blocks etc.
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Parcel data is one of the most important Foundational Elements and is used by many people.
- Surveyors, engineers, realtors, other professionals and citizens rely on accurate parcel boundaries.

Objectives/Measure of Success

- Keep parcel mapping current
- Integrate Survey-Grade PLSS Coordinates into the parcel mapping.
- Accurately depict not only tax parcels but Subdivisions, Lots and Blocks as well.

Project Timeframes

- Ongoing

Responsible Parties

- Land Records Coordinator

Estimated Budget Information

- Since we do not plan to contract any work for this project out, the project cost has been made a part of "Ongoing Costs Not Associated With a Specific Project".

Project #7: Website, Data Hosting Services, Software and Hardware Maintenance

Project Description/Goal

- Maintain and expand online mapping and data distribution capabilities
- **Land Info Spending Category:** Software, Hardware, Website Development/Hosting Services

Business Drivers

- Public demand for online land records
- Technology advancements have made distributing maps and data easier
- Technology is constantly changing and updating – we must do the same

Objectives/Measure of Success

- Online GIS applications and data are available to the public
- Hardware and software required is up to date and reliable

Project Timeframes

- Ongoing

Responsible Parties

- Land Records Coordinator
- Information Systems
- Contractor

Estimated Budget Information

- \$ 50,000 annually

Project #8: GIS Metadata

Project Description/Goal

- The creating of accurate and comprehensive metadata for each layer in Wood County's GIS.
- **Land Info Spending Category:** Administrative Activities and Management

Business Drivers

- Wood County has had a rapidly expanding GIS. It has become difficult to communicate the purpose of each layer and how it should be appropriately used.

- We want to avoid a huge learning curve when there is staff turnover. This can be facilitated by accurate descriptions of how individual GIS assets are maintained. This can be done through metadata.

Objectives/Measure of Success

- Wood County's GIS catalogue is fully documented with accurate and comprehensive metadata.

Project Timeframes

- This project will be worked on throughout this plan period.

Responsible Parties

- Land Records Coordinator

Estimated Budget Information

- Since we do not plan to contract any work for this project out, the project cost has been made a part of "Ongoing Costs Not Associated With a Specific Project".

Ongoing Costs Not Associated With a Specific Project

Funding for the Land Records Coordinator Position

Since it began in 1990, the Land Information Program has been funded entirely through retained fees, contribution-based grants, strategic initiative grants, and education and training grants. The biggest recurring investment on an annual basis is funding the cost of employing a Land Records Coordinator to work towards the goals of land records modernization in the county.

The cost for Salary, Taxes, Benefits as well as office costs for the Land Records Coordinator is approximately \$97,000 a year.

Estimated Budget Information (All Projects)

Estimated Budget Information

Project Title	Item	Unit Cost/Cost	Land Info Plan Citations Page # or section ref.	Project Total
Project Plan to Maintain Searchable Format (Benchmarks 1 & 2)	Land Records Coord		Page 27	See "Ongoing Costs Not Associated With a Specific Project"
Project Plan for PLSS (Benchmark 4)	Land Records Coord	100% of 5k = \$5k	Page 27	\$5,000
#1 2025 Orthophotography Acquisition	Contractor	100% of 150k = \$150k	Page 28	\$150,000
#2 Historic Air Photo Scanning and Georeferencing	Land Records Coord		Page 29	See "Ongoing Costs Not Associated With a Specific Project"
#3 Next Generation 911	Land Records Coord	80% of 50k = \$40k	Page 29	
	Contractor	20% of 50k = \$10k	Page 29	\$100,000
#4 Research and Mapping of Right-of-Ways	Land Records Coord	5% of 150k = \$7.5k	Page 30	
	County Surveyor	5% of 150k = \$7.5k	Page 30	
	Highway Department	10% of 150k = \$15k	Page 30	
	Contracted Surveyor	80% of 150k = \$120k	Page 30	\$150,000
#5 Buildings and Improvements Information	Land Records Coord	50% of 100k = \$50k	Page 30	
	Contractor	50% of 100k = \$50k	Page 30	\$100,000
#6 Parcel Fabric, Maintenance and Accuracy Improvements	Land Records Coord		Page 31	See "Ongoing Costs Not Associated With a Specific Project"
#7 Website, Data Hosting Services, Software and Hardware Maintenance	Land Records Coord	50% of 150k = \$75k	Page 31	
	Information Systems	10% of 150k = \$15k		
	Contractors	40% of 150k = \$60k	Page 31	\$150,000
#8 GIS Metadata	Land Records Coord		Page 31	See "Ongoing Costs Not Associated With a Specific Project"
Ongoing Costs Not Associated With a Specific Project	Land Records Coord	100% of 113.5k = \$113.5k	Page 32	\$113,500
GRAND TOTAL				768,500

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

		Actual	2024 Budget	Variance
Land Record-Fees:				
261-2202-46135-000-000	Public Charges-Land Record Fees	73,544.00	100,000.00	(26,456.00)
	Total Land Record-Fees	73,544.00	100,000.00	(26,456.00)

		Actual	2024 Budget
Land Record:			
261-2202-56320-000-101	Land Records Wages	55,132.26	54,877.37
261-2202-56320-000-107	Land Records Sick	726.34	2,970.23
261-2202-56320-000-108	Land Records Vacation	2,014.64	3,692.40
261-2202-56320-000-109	Land Records Holiday	1,366.36	2,461.60
261-2202-56320-000-120	Land Records FICA	4,337.02	4,896.12
261-2202-56320-000-130	Land Records Health Insurance	15,449.52	16,737.00
261-2202-56320-000-133	Land Records Vision Insurance	72.00	78.00
261-2202-56320-000-140	Land Records Life Insurance	13.92	15.12
261-2202-56320-000-151	Land Records Retirement	4,087.49	4,416.11
261-2202-56320-000-160	Land Records Workers Compensation	61.57	67.84
261-2202-56320-000-172	Land Records Conferences/Training/Seminars	275.00	3,000.00
261-2202-56320-000-219	Land Records Other Professional Services	15,054.18	50,000.00
261-2202-56320-000-221	Land Records Cellphone/Telephone	182.29	250.00
261-2202-56320-000-230	Land Records PC Replacement	560.04	560.00
261-2202-56320-000-311	Land Records Office Supplies	88.99	780.00
261-2202-56320-000-313	Land Records Postage	1.93	45.00
261-2202-56320-000-328	Land Record Dues	250.00	250.00
261-2202-56320-000-329	Land Records Other Publications, Subscrip & Dues	14,055.00	17,000.00
261-2202-56320-000-331	Land Records Mileage	351.08	700.00
261-2202-56320-000-333	Land Records Lodging / Hotels	330.37	1,000.00
261-2202-56320-000-511	Land Records Insurance	849.12	849.10
261-2202-56320-000-531	Land Records Interdepartment Rent	1,032.00	1,032.00
261-2202-56320-000-233	Land Records Repair & Maint Serv-Equipment		10,350.00
261-2202-56320-000-312	Land Records Copy Expense		100.00
261-2202-56320-000-332	Land Records Meals		380.00
261-2202-56320-000-336	Land Records Parking		50.00
261-2202-56320-000-340	Land Records Operating Expense		32,801.00
261-2202-56320-300-819	Land Record - Other Equipment ARPA LR		242,425.00
	Total Land Record	116,291.12	451,783.89