



# Lafayette County Land Information Plan 2022-2024

\*\*Wisconsin Land Information Program  
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[www.doa.wi.gov/WLIP](http://www.doa.wi.gov/WLIP)

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# EXECUTIVE SUMMARY

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**About this Document.** This document is a land information plan for Lafayette County prepared by the land information officer (LIO) and the Lafayette 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 2019, Lafayette County was awarded \$124,048 in WLIP grants and retained a total of \$26,952 in local register of deeds document recording fees for land information. In 2020, Lafayette County was awarded \$116,824.00 in WLIP grants and retained a total of \$24,176 in local register of deeds document recording fees for land information. In 2021, Lafayette County was awarded \$119,520 in WLIP grants and retained a total of \$31,480 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 Lafayette 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 Lafayette 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.

**Three-Year Mission Statement of the Land Information Office.** In the next three years, Lafayette County’s Land Information Office strives to continue improving communication and efficiency between County offices and as well as with the public. While the County will continue to improve the accuracy of existing datasets such as the County PLSS, parcel, and address datasets, Land Info staff will also begin to shift focus to providing more services and applications digitally via ArcGIS online applications or other platforms. Additionally, the County plans to acquire new imagery by participating in the WI Regional Orthoimagery Consortium 2023 Aerial Imagery and 2024-2025 LiDAR projects.

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

## Lafayette County Land Information Projects: 2022-2024

**Benchmark 4 PLSS Remonumentation**

**Project #1 Acquisition of 2023 orthoimagery and 2024-2025 LiDAR**

**Project #2 Continued remapping of countywide parcels, including enhanced property listing and improved tax and assessment rolls.**

**Project #3 Expansion of Countywide custom online mapping and collector applications. Specific applications may include Tourism and Economic Development mapping, Survey123 apps for Emergency Management, and Collector Applications for Public Health and Land Conservation.**

**Project #4 Improvements to Document Imaging and continued digitizing of documents**

**Project #5 Enhanced emergency service datasets to accommodate NextGen 911.**

The remainder of this document provides more details on Lafayette 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.

## Act 20 and the Statewide Parcel Map Initiative

A major development for the WLIP occurred in 2013 through the state budget bill, known as Act 20. It directed the Department of Administration (DOA) to create a statewide digital parcel map in coordination with counties.

Act 20 also provided more revenue for WLIP grants, specifically for the improvement of local parcel datasets. The WLIP is dedicated to helping counties meet the goals of Act 20 and has made funding available to counties in the form of Strategic Initiative grants to be prioritized for the purposes of parcel/tax roll dataset improvement.

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 (For 2022-2024 Grant Years)

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

## County Land Information System History and Context

Lafayette County has greatly benefited from the Wisconsin Land Information Program, and it will continue to maintain and enhance the projects implemented since its inception in 1995. Due to its rural makeup, Lafayette County has relied heavily on the grant eligibility component of the WLIP to move modernization efforts forward.

In the early 1997, a part time Land Records Coordinator was hired and in May of 1999, the position went full time. This position enabled Lafayette County to begin its land records modernization goals. Early projects of the program included base parcel mapping and county section corner maintenance. Efforts were made to establish working relationships with local municipalities and State agencies. The County also established a mapping website to display parcel ownership and assessment information.

With the departure of the Land Records Coordinator and Real Property Lister professionals in 2015, the County made a commitment to enhancing the program. The two positions were hired back as the GIS Coordinator/Land Information Officer and the Real Property Lister/GIS Specialist with a heightened focus towards geographic information system (GIS) development within the County. The locations of the new positions were situated together as the "Land Information Department" within the County Treasurer's office. The goal of the restructure is to help improve communication and coordination to meet WLIP goals.

Years 2015-2017 brought about major software changes to the County. In mid-2015, the County contracted with ProWest and Associates to migrate its existing CAD data into ESRI's Parcel Fabric. At the same time they invested in more ESRI licensing that allowed for enhanced data maintenance. The upgraded software licenses also allowed the GIS Coordinator to develop in house ArcGIS Online web mapping applications for the public and various departments, and the web applications allowed for parcel updates on a nightly basis and eliminated the need to pay for out of house mapping.

The Sheriff's Office also invested in new E911 and Records Management software. Prior to going live with Spillman Technologies at the beginning of 2017, the Land Information Department undertook the task of overhauling the addressing process in the County. The County Board adopted a "Rural Addressing and Road Name Ordinance" and the GIS Coordinator merged various addressing sources into one dataset that could easily be maintained and distributed to all necessary entities. This information is vital to the Spillman software and continued enhancements are planned.

A new Land Records System (LRS) also went live in mid-2017. The County purchased Transcendent Technologies' "Ascent Land Records and Permit Management Software". The new SQL database system replaced the former AS400 tax package and allowed multiple offices to share and link land information. As a continuation of this project, in 2018 the Land Information Department budgeted for two limited term data entry positions to help scan and index zoning and survey records for use in the new program.

The last major ongoing project was to bring back County remonumentation and begin re-parcel mapping the County. The first step in this process was to reappoint a County Surveyor who could assist and advise the County during the process. In 2016, Aaron Austin was appointed Lafayette County Surveyor for a two-year term. That same year, the Land Information began bidding out remonumentation and maintenance projects. These projects have continued to date and include updated survey monument records (tiesheets) and acquisition of survey grade coordinates on all section corners included in the projects. As whole townships are completed, the Real Property Lister/GIS Specialist is remapping all parcels using the survey grade accuracy and improving or enhancing the parcel listings within the LRS.

## County Land Information Plan Process

County land information plans were initially updated every five years. However, as a result of Act 20, counties must update and submit their plans to DOA for approval every three years. The 2019-2021 plan, completed at the end of 2021, is the third post-Act 20 required update. The 2022-2024 plan, completed at the end of 2024 will be the fourth post-Act20 required update.

### County Land Information Plan Timeline

- DOA release of finalized instructions by March 31, 2021.
- April–September 2021: Counties work on land info plans.
- Draft plans due to DOA by September 30, 2021 (but sooner is advised).
- Final plans with county land info council approval due by December 31st, 2021.

### 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 Lafayette County Land Information Council, and others as listed below.

Lafayette County Land Information Council and Plan Workgroup				
Name	Title	Affiliation	Email	Phone
+ Cindy Fitzsimons	GIS Coordinator/ Land Information Officer (LIO)	Lafayette County Land Information Department	cindy.fitzsimons@lafayettecountywi.org	608-776-4864
+ Lisa Black	County Treasurer	Lafayette County Treasurer's Office	lisa.black@lafayettecountywi.org	608-776-4863
+ Jeannette Fitzsimons	Real Property Lister/GIS Specialist	Lafayette County Land Information Department	jeannette.fitzsimons@lafayettecountywi.org	608-776-4825
+ Cathy Paulson	Register of Deeds	Lafayette County Register of Deeds	cathy.paulson@lafayettecountywi.org	608-776-4839
+ Aaron Austin	County Surveyor	Austin Engineering LLC	aaron@austinengineeringllc.com	608-723-6363
+ Rhonda Pehl	Local Realtor	Century 21 Advantage	rpehlc21@gmail.com	608-482-2700
+ Theresa Burgess	Emergency Management Director	Lafayette County Sheriff's Office	theresa.burgess@lafayettecountywi.org	608-776-4859
+ Dan Rielly	Highway Commissioner	Lafayette County Highway Department	dan.rielly@lafayettecountywi.org	608-776-4819
+ Erica Sauer	Land Conservation, Planning & Zoning Administrator	Lafayette County Planning, Zoning, & Land Conservation Department	erica.sauer@lafayettecountywi.org	608-776-3736
+ Kriss Marion	County Board Member	Lafayette County Board of Supervisors	kriss.marion@lafayettecountywi.org	608-636-4652
+ Donna Flannery	County Board Member	Lafayette County Board of Supervisors	donna.flannery@lafayettecountywi.org	608-214-0471

# 2 FOUNDATIONAL ELEMENTS

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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



**Public Land Survey System Monuments**

**Layer Status**

**PLSS Layer Status**

	<b>Status/Comments</b>
Number of PLSS corners (selection, ¼, meander) <b>set in original government survey</b> that can be remonumented in your county	Approximately 2290
Number of PLSS corners capable of being remonumented in your county that <b>have been remonumented</b>	2216
Number of remonumented PLSS corners with survey grade coordinates (see below for definition) <ul style="list-style-type: none"> <li>• <b>SURVEY GRADE</b> – 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</li> <li>• <b>SUB-METER</b> – point precision of 1 meter or better</li> <li>• <b>APPROXIMATE</b> – point precision within 5 meters or coordinates derived from public records or other relevant information</li> </ul>	<ul style="list-style-type: none"> <li>• Survey Grade – 948</li> <li>• Sub-Meter – 75</li> <li>• Approximate – 1,193</li> <li>• Disputed – 3</li> <li>• Unverified – 73</li> <li>• Calculated Center - 140</li> </ul>
Number of survey grade PLSS corners integrated into county digital parcel layer	• 948
Number of non-survey grade PLSS corners integrated into county digital parcel layer	• 1,344
Tie sheets available online?	<ul style="list-style-type: none"> <li>• Yes. View Here: <a href="https://lafay.maps.arcgis.com/apps/webappviewer/index.html?id=f4e13f5f5274400a834cab24dfb93cce">https://lafay.maps.arcgis.com/apps/webappviewer/index.html?id=f4e13f5f5274400a834cab24dfb93cce</a></li> </ul>
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) <b>and a corresponding URL path/hyperlink value</b> in the PLSS geodatabase	• 100%
PLSS corners believed to be remonumented based on filed tie-sheets or surveys, but do not have coordinate values	• 1193
Approximate number of PLSS corners believed to be lost or obliterated	Unknown
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)?	Beginning in 2016, the County began renumbering section corners to the Romportl system. All corners have been renumbered to date, and tiesheet documents are re-indexed with remonumentation projects or as time allows.
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. These areas are not applicable to Lafayette County.
Total number of PLSS corners along each bordering county	207 Total; Iowa - 64, Green - 43, Grant - 43, Jo Daviess County, IL - 51, Stephenson County, IL - 10
Number of PLSS corners remonumented along each county boundary	Iowa - 59, Green – 43, Grant – 43, Jo Daviess County, IL - 41, Stephenson County, IL – 7
Number of remonumented PLSS corners along each county boundary with survey grade coordinates	Iowa – 28. Green – 43, Grant – 43, Jo Daviess County, IL – 21, Stephenson County, IL – 1
In what ways does your county collaborate with or plan to collaborate with neighboring counties for PLSS updates on shared county borders?	Lafayette County shares section corner and tiesheet data with neighboring counties. In recent remonumentation projects, the County has reached out to neighboring counties to partner along shared lines, however those counties declined.

**Custodian**

- Lafayette County Land Information in conjunction with the appointed County Surveyor

**Maintenance**

- Lafayette County is currently undergoing annual section corner maintenance and remonumentation projects. With these projects, monuments are reset or retied as necessary

and survey grade coordinates are required. Land Information staff maintains this data along with all filed tiesheets for the County.

### 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.
- 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

- Lafayette County has HMOD and HARN data via the National Geodetic Survey

### Custodian

- WisDOT, National Geodetic Survey

### Maintenance

- NGS, WisDOT

### Standards

- Federal Geographic Data Committee Standards

## Parcel Mapping

### Parcel Geometries

#### Layer Status

- **Progress toward completion/maintenance phase:** In Lafayette County, 99.5% of the county's parcels are available in a commonly-used digital GIS format. The remaining 0.5% would be parcels with issues regarding their legal descriptions and cannot be mapped.
- Projection and coordinate system: NAD\_1983\_HARN\_WISCRS\_Lafayette\_County\_Feet
- 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 Web AppBuilder for ArcGIS (custom) – In-house
- **Unique URL path for each parcel record:**
  - Yes. Available Data includes: Assessment, Tax, Sales History, Zoning (if available), and a link the Assessor's record (if available)
  - Yes. The link is stable.
  - Yes, the URL can be exported.  
<https://ascent.lafayettecountywi.org/AscentLandRecords/PropertyListing/RealEstateTaxParcel#/Search>

#### Custodian

- Lafayette County Land Information

## Maintenance

- **Update Frequency/Cycle.** Parcel polygons are updated continuously as real estate transfers occur. The County is also remapping parcel geometries following acquisition of survey grade coordinates.

## Standards

- **Data Dictionary:** The County utilizes the data standards as laid out for the Statewide parcel map. No formal dictionary exists.

## Assessment/Tax Roll Data

### Layer Status

- **Progress toward completion/maintenance phase:** Complete. Maintained daily. Lafayette County uses Ascent Land Records for assessment software. Each municipality contracts their own assessor for property assessment. The Lafayette County GIS Specialist/Real Property Lister and Lafayette County Treasurer print the tax bills and distribute them to each municipality. Each night a modeling script runs to pull ownership and assessment information from Ascent Land Records and link it to parcel ID field in parcel polygon layer. It can be viewed on the Lafayette County web-mapping site:  
<https://lafay.maps.arcgis.com/apps/webappviewer/index.html?id=2b7233d6dbf2418c9ced28f6b7e836d1>. This is the method we use to provide this information to the public; there is not an assessment polygon layer.
- **Tax Roll Software/App and Vendor name: Ascent Land Records Suite** – from contractor/vendor Transcendent Technologies
- **Municipal Notes:** NA

### Custodian

- Lafayette County Land Information and County Treasurer

### Maintenance

- **Maintenance of the Searchable Format standard:** To maintain the Searchable Format standard, the county will work with its vendor, Transcendent Technologies, to make sure exported attributes meet the searchable format requirements.
- **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 – s.73.03(2a), Wis. Stats. Department of Revenue
- DOR XML format standard requested by DOR for assessment/tax roll data
- In addition to the above standards, Lafayette County follows best practices laid out in the Wisconsin Real Property Lister Manual -- s.70.09, Wis. Stats. Duties of the Real Property Lister

## Non-Assessment/Tax Information Tied to Parcels

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

### Layer Status

- Site addresses, POWTS, and Zoning permits are tied to the parcels via the PIN. Zoning is currently working to improve and link POWTS and Zoning data.

### Custodian

- Lafayette County Land Information and Planning & Zoning

### Maintenance

- Ongoing.

## Standards

- Data is tied together via the ESRI's LGIM and via Transcendent's Land Records and Permit Management System

## ROD Real Estate Document Indexing and Imaging

### Layer Status

- **Grantor/Grantee Index:** Fidlar Technologies provides AVID software for indexing documents by Grantor/Grantee. Documents are indexed back to 1961.
- **Tract Index:** Fidlar Technologies provides AVID software for indexing documents by PLSS. Documents are available back to 1961.
- **Imaging:** Lafayette County uses Fidlar's Laredo software to image documents.
- **ROD Software/App and Vendor Name:** Laredo/Tapestry – from contractor/vendor Fidlar. Real Estate documents are available for purchase online back to 1961.

### Custodian

- County Register of Deeds

### Maintenance

- Ongoing.

### 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:** 2019. Covers approximately 641 square miles which includes a 100-meter buffer around the county boundary.
- **Accuracy:** The LiDAR point cloud was produced to meet or exceed FEMA standards for vertical accuracy of 10 cm RMSEz, which equates to 0.3 foot vertical accuracy.
- **Post spacing:** .7 meter
- **Contractor's standard, etc.:** The data was developed based on a horizontal projection/datum of NAD83(2011) / Lafayette County (ft.US) (EPSG Code: 7608), and vertical datum of NAVD88 - Geoid12B (Feet). LiDAR data was acquired on April 8, 2019 in 2 total flights.
- **Next planned acquisition year:** 2024-2025:

#### Custodian

- Lafayette County Land Information

#### Maintenance

- Lafayette County contracts with Ayres & Associates to host the Lafayette County LiDAR data in the Ayres LiDAR Online Application. Data is viewable here:  
<https://www.arcgis.com/apps/webappviewer3d/index.html?id=a3f80240bc7e494db1e8d2d48289d15a>

#### Standards

- The LiDAR point cloud was produced to meet or exceed FEMA standards for vertical accuracy of 10 cm RMSEz, which equates to 0.3 foot vertical accuracy.

## 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

- Ayres & Associates produced a countywide Digital Elevation Model (DEM) from the 2019 LiDAR data.

### Custodian

- Lafayette County Land Information

### Maintenance

- Lafayette County contracts with Ayres & Associates to host the Lafayette County LiDAR data in the Ayres LiDAR Online Application. Data is viewable here:  
<https://www.arcgis.com/apps/webappviewer3d/index.html?id=a3f80240bc7e494db1e8d2d48289d15a>

### Standards

- The LiDAR point cloud was produced to meet or exceed FEMA standards for vertical accuracy of 10 cm RMSEz, which equates to 0.3 foot vertical accuracy.

## Contours

### Layer Status

- Ayres & Associates produced countywide 1 foot contours from the 2019 LiDAR flight. They were provided in both DWG and Shapefile format by PLSS section tile.
- Lafayette County also contracts with Ayres & Associates to host the Lafayette County LiDAR data in the Ayres LiDAR Online Application. Data is viewable here:  
<https://www.arcgis.com/apps/webappviewer3d/index.html?id=a3f80240bc7e494db1e8d2d48289d15a>

### Custodian

- Lafayette County Land Information

### Maintenance

- The County plans to acquire new LiDAR in 2024-2025

### Standards

- The LiDAR point cloud was produced to meet or exceed FEMA standards for vertical accuracy of 10 cm RMSEz, which equates to 0.3 foot vertical accuracy.

## Orthoimagery

### Orthoimagery

#### Layer Status

- **Most recent acquisition year:** 2020
- **Resolution:** 6 inch
- **Contractor's standard:** Aerial imagery was collected to support 0.5 foot ground sample distance (GSD) orthoimagery to meet ASPRS Class II horizontal accuracy specifications at 1"=100' map scale.
- The horizontal accuracy meets or exceeds 1.4 feet RMSEr according to the ASPRS Accuracy Standards for Digital Geospatial Data. Resultant orthoimagery was rectified to a DTM created from existing LiDAR.
- **Next planned acquisition year:** 2023. The County plans for a 3 year update cycle.

#### Custodian

- Lafayette County Land Information

#### Maintenance

- Lafayette County plans to update imagery on a 3-year cycle.

## Standards

- Federal Geographic Data Committee Standards

## Historic Orthoimagery

### Layer Status

- Lafayette County has Orthos from 2015, 2005 and part of the County from 1995. The 2005 dataset was acquired as part of a multi-county consortium.

### Custodian

- Lafayette County Land Information

### Maintenance

- N/A

### Standards

- Existing Orthos were flown utilizing FGDC standards

## Other Types of Imagery

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

### Layer Status

- N/A

## Address Points and Street Centerlines

### Address Point Data

#### Layer Status

- Lafayette County has 100% of all address points mapped. In rural areas, the features are mapped as driveway entrance points. The data is maintained in ESRI's LGIM with additional attributes added to accommodate Dispatch's CAD software vendor, Spillman.

#### Custodian

- Lafayette County Land Information

#### Maintenance

- Ongoing. This data is shared with Dispatch on a quarterly basis or as needed.

#### Standards

- Lafayette County maintains a grid based system that is compliant with US postal standards.
- Requirements are followed to meet Spillman standards for Dispatch.
- Wisconsin GIS NG9-1-1 Data Standard (Site/Structure Address Points) – work is being done to bring data up to the WI GIS NG911 Data standards.

## Building Footprints

### Layer Status

- Lafayette County has developed a structure point dataset that has a linked relationship class to the address point layer.
- The County has also acquired building footprints data from the 2019 LiDAR collection but has not been linked to this structure point dataset yet. This is a planned project for this data.

## Other Types of Address Information

### Address Grid

#### Layer Status

- Lafayette County has created an address grid to assist in the assignment of new rural addresses.

#### Custodian

- Lafayette County Land Information

### **Maintenance**

- As needed, although normally not required.

### **Standards**

- The address grid follows US Postal standards.

## **Street Centerlines**

### **Layer Status**

- Lafayette County has complete Centerlines with associated address road ranges.

### **Custodian**

- Lafayette County Land Information

### **Maintenance**

- Centerlines are added and edited as needed or as new or improved information becomes available.

### **Standards**

- Lafayette County maintains a grid based system that is compliant with US postal standards.
- Requirements are followed to meet Spillman standards for Dispatch.
- Additional plans are being made in this plan cycle to meet the National Emergency Number Association standards for NextGen911
- Wisconsin GIS NG9-1-1 Data Standard (Site/Structure Address Points) - work is being done to bring data up to the WI GIS NG911 Data standards.

## **Rights of Way**

### **Layer Status**

- At this time, Rights of Way are not mapped for Lafayette County. This would be a desirable dataset in the future.

## **Trails**

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

### **Layer Status**

- Lafayette County has completed dataset for Hiking, ATV/UTV, Snowmobile, and Horse trails throughout the County

### **Custodian**

- Lafayette County Land Information

### **Maintenance**

- New ATV/UTV road routes are approved annually by the County Highway Safety Committee and mapping of the new routes occurs each February.
- Other trails are updated as needed.

### **Standards**

- Snowmobile Trails are mapped according to the Department of Natural Resources Trail Aids grant program requirements. All other County trails follow similar standards.

## **Land Use**

### **Current Land Use**

### **Layer Status**

- This layer was completed through the County's comprehensive planning process. The plan and dataset was created in 2007 through the Southwest Wisconsin Regional Planning Commission. The County and local municipalities provided input on their comprehensive plans.

#### **Custodian**

- Lafayette County Planning & Zoning

#### **Maintenance**

- This dataset has not been maintained.

#### **Standards**

- s. 66.1001 Wis Stats. Comprehensive planning.

### **Future Land Use**

#### **Layer Status**

- This dataset was completed through the County's comprehensive planning process in 2007. The County worked with Southwest Wisconsin Regional Planning Commission to develop this plan.

#### **Custodian**

- Lafayette County Planning & Zoning

#### **Maintenance**

- This dataset has not been maintained.

#### **Standards**

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

## **Zoning**

### **County General Zoning**

#### **Layer Status**

- The County does maintain a GIS representation of county general zoning boundaries. Lafayette County oversees general zoning for 11 out of 18 townships.

#### **Custodian**

- Lafayette County Planning & Zoning in conjunction with the Land Information Department

#### **Maintenance**

- Ongoing.

#### **Standards**

- General zoning is maintained as part of ESRI's LGIM and is generally parcel based. Attribute data also references a parcel number so it can be tied back in the Transcendent Permit management program.

### **Shoreland Zoning**

#### **Layer Status**

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

#### **Custodian**

- Lafayette County Planning & Zoning in conjunction with the Land Information Department

#### **Maintenance**

- As needed. With the acquisition of new LiDAR in 2019-2020, the County plans to acquire new break lines and stream delineation to further improve shoreland zoning mapping.

#### **Standards**

- Three hundred and one hundred foot buffers were created using value added hydro layers from WiDNR.



## Farmland Preservation Zoning

### Layer Status

- The County does maintain a GIS representation of county farmland preservation zoning boundaries.
- Year of certification: The Lafayette County Farmland Preservation Zoning ordinance was certified in 2019. The certification extends through December 31, 2028.

### Custodian

- Lafayette County Land Conservation with assistance from Land Information

### Maintenance

- On-going. Data is updated in conjunction with approved rezone requests for general zoning.

### Standards

- FPP is tied to parcel geometries and general zoning datasets.

## Floodplain Zoning

### Layer Status

- The County has received DFIRM data from FEMA for Lafayette County as a result of the Flood Insurance Study number 55065CV000A effective on December 17, 2020. This Flood Insurance Study (FIS) report revises and updates information on the existence and severity of flood hazards for the study area. The studies described in the report developed flood hazard data that will be used to establish actuarial flood insurance rates and to assist communities in efforts to implement sound floodplain management.

### Custodian

- Lafayette County Planning & Zoning with assistance from Land Information

### Maintenance

- The County plans to update Flood data based on the FIRM data received.

### Standards

- This dataset was completed by FEMA in accordance with FEMA standards.

## 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

- The County does not maintain municipal zoning information at this time. Municipalities are responsible for their own zoning regulations and mapping. However, the County is very willing to serve municipal zoning information up on it's mapping website if the municipality is willing to share that information.

## Administrative Boundaries

### Civil Division Boundaries

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

### Layer Status

- Civil divisions are complete for Lafayette County.

### Custodian

- Land Information in conjunction with the County Clerk

## Maintenance

- As needed. Civil divisions are updated as new annexations or detachments are recorded or as updated municipal boundary descriptions are recorded.

## Standards

- This dataset is part of ESRI's LGIM. Boundaries are generally parcel based.

## School Districts

### Layer Status

- **Progress toward completion/maintenance phase:** Complete.
- **Relation to parcels:** School District boundaries are mapped from attributes that are ties to parcels.
  - **Attributes linked to parcels:** School District Code and School District Name

### Custodian

- Lafayette County Land Information in conjunction with the County Clerk

### Maintenance

- School district boundaries are updated as needed. Land Information is currently working with the Department of Public Instruction to assist with creating a Statewide School District Layer. Changes or corrections to school district coding on parcels, along with updated district geometries, may occur as part of this project.

### Standards

- This dataset is part of ESRI's LGIM and is parcel based.

## Election Boundaries

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

### Layer Status

- Supervisory Districts and Wards are complete for Lafayette County.
- Lafayette County submits election boundary information to the WI Legislative Technology Services Bureau and the US Census as part of the Boundary and Annexation Survey.

### Custodian

- Land Information Department in conjunction with the County Clerk & Local Municipalities

### Maintenance

- Major updates occur every 10 years following a new decennial census and as part of the normal redistricting cycle.
- Minor geometries are updated and will become more accurate as the County's PLSS network becomes more accurate.
- Boundaries are adjusted as annexations/detachments take place.

### Standards

- This data includes attributes associated with the WI Legislative Technology Services Bureau, BAS submittal as required by State Statutes.
- Geometries are tied to tax parcel geometries.

## Utility Districts

### Municipal Utility Districts

#### Layer Status

- The City of Darlington has complete GPSed water, sewer, and storm infrastructure.

#### Custodian

- City of Darlington with assistance from the Lafayette County Land Information Department as needed.

## **Maintenance**

- On-going.

## **Standards**

- No formal standards at this time.

## **Gas/Electric**

### **Layer Status**

- The County works with local utility companies to exchange geospatial data when necessary or appropriate or when allowed by law.

### **Custodian**

- Utility companies

## **Maintenance**

- Updates of these layers are requested on an as needed basis.

## **Standards**

- N/A

## **Sanitary Districts**

### **Layer Status**

- Complete. There is only one sanitary district in the County.

### **Custodian**

- Lafayette County Land Information with feedback from the Wiota Sanitary district.

## **Maintenance**

- As needed.

## **Standards**

- Geometries are parcel based
- Features have been incorporated into ESRI's LGIM.

## **POWTS**

### **Layer Status**

- POWTS (Sanitary systems) are completed for the County.

### **Custodian**

- Lafayette County Planning & Zoning with assistance from Land Information

## **Maintenance**

- Ongoing. This dataset is updated as new systems are approved.
- The County is also currently improving the mapping of existing systems by scanning and indexing old permits and updating the site placement of GIS data at the same time. This has been completed from Present back to 2000 as the time of writing of this plan.

## **Standards**

- Data is tied together via the ESRI's LGIM and via Transcendent's Land Records and Permit Management System.
- Geometries are hand placed from plot plans provided with the permit and updated when new imagery becomes available.

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

### **Layer Status**

- Law Enforcement: The County does maintain a GIS representation of county law enforcement boundaries.
- Fire: The County does maintain a GIS representation of county Fire department boundaries.

- EMS: The County does maintain a GIS representation of county EMS boundaries.
- First Response: The County does maintain a GIS representation of county First Responders boundaries.

#### **Custodian**

- Lafayette County Land Information and Lafayette County Sheriff/Emergency Management

#### **Maintenance**

- As Needed

#### **Standards**

- Geometries follow County PLSS and parcel boundaries.
- Wisconsin GIS NG9-1-1 Data Standard (Emergency Service Boundary)

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

#### **Layer Status**

- The County does maintain a GIS representation of the PSAP boundary.
- PSAP Boundary: PSAP boundary is the same as/coincident with the county boundary

#### **Custodian**

- Lafayette County Land Information and Lafayette County Sheriff/Emergency Management

#### **Maintenance**

- As Needed

#### **Standards**

- Wisconsin GIS NG9-1-1 Data Standard (PSAP Boundary)

### **Provisioning Boundary**

#### **Layer Status**

- Same as the PSAP\County Boundary

#### **Custodian**

- Lafayette County Land Information and Lafayette County Sheriff/Emergency Management

#### **Maintenance**

- As Needed

#### **Standards**

- Wisconsin GIS NG9-1-1 Data Standard (Provisioning Boundary)

### **Other Public Safety**

#### **e.g., Healthcare Facilities**

#### **Layer Status**

- Not administered by county.

### **Lake Districts**

#### **Layer Status**

- Not administered by county.

### **Native American Lands**

#### **Layer Status**

- Not administered by county.

## Other Administrative Districts

### Parks

#### Layer Status

- Lafayette County maintains a park point and polygon feature class that includes a County park, State park and State lands open to the public, as well as municipal parks.

#### Custodian

- Lafayette County will acquire updates from WiDNR or municipalities as needed.

#### Maintenance

- As needed.

#### Standards

- The layer is part of ESRI's LGIM

## 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

- The County utilizes the DNR hydrography datasets, but has adjusted features to better align with the newest aerial imagery and LiDAR datasets.

#### Custodian

- WiDNR, with value-added features maintained by Lafayette County Land Information

#### Maintenance

- As needed.

#### Standards

- Hydrography features provided by the WiDNR but that have been adjusted to match the most current orthos and LiDAR breaklines acquired by the County.

### Cell Phone Towers

#### Layer Status

- The County does maintain a GIS representation of county cell phone towers.

#### Custodian

- Lafayette County Land Information with input from cellular companies as necessary.

#### Maintenance

- This dataset is in need of completion. New wireless towers are added as they are built.

#### Standards

- Hand placed geometries from as-builds or air photo verification.

### Bridges and Culverts

#### Layer Status

- Lafayette County has developed bridge, culvert, and County Road sign datasets.

#### Custodian

- Lafayette County Highway Department with assistance from the Lafayette County Land Information Department

## **Maintenance**

- The maintenance of this dataset has fallen behind in recent years. A new updated workflow should be developed during this plan cycle to bring this dataset up to date and maintain on an as-needed basis.

## **Standards**

- No formal standards have been implemented at this time.

## **Other/Miscellaneous**

### **Manure Storage Facilities**

#### **Layer Status**

- The County does maintain a GIS representation of county manure storage facilities.

#### **Custodian**

- Land Conservation with assistance from Lafayette County Land Information

#### **Maintenance**

- This data will be updated annually or as needed.

#### **Standards**

- Hand placed geometries with aerial verification whenever possible.

### **Non-Metallic Mining**

#### **Layer Status**

- In progress. Data is being collected by Southwest Wisconsin Regional Planning Commission. It is expected this dataset will be completed during this plan cycle.

#### **Custodian**

- Lafayette County Planning & Zoning with assistance from Land Information.

#### **Maintenance**

- As needed.

#### **Standards**

- Hand placed geometries with aerial verification whenever possible.

### **Historic Mine Mapping**

#### **Layer Status**

- The County does maintain a GIS representation of historic lead mines in the County.

#### **Custodian**

- WI Geological and Natural History Survey

#### **Maintenance**

- N/A

#### **Standards**

- The project was digitized from the WI Mineral Development Atlas and verified against LiDAR hillshade and the USGS "Mine Activity" dataset.

### **Tourism and Point of Interest Layers**

#### **Layer Status**

- The County has a number of point datasets related to tourism or just general information layers. These include information such as schools, cemeteries, military gravesites, and churches.
- A Story Map promoting tourism and highlighting all the places to Eat, Play, and Stay in Lafayette County has also been created. The story map is viewable here: <https://arcg.is/184bWf>

**Custodian**

- Lafayette County Land Information and Economic Development

**Maintenance**

- As needed.

**Standards**

- No formal standards developed, although data is incorporated into ESRI's LGIM whenever possible. The majority of this data was created through handheld GPS or georeferencing from current aerial photography.

# 3 LAND INFORMATION SYSTEM

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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.

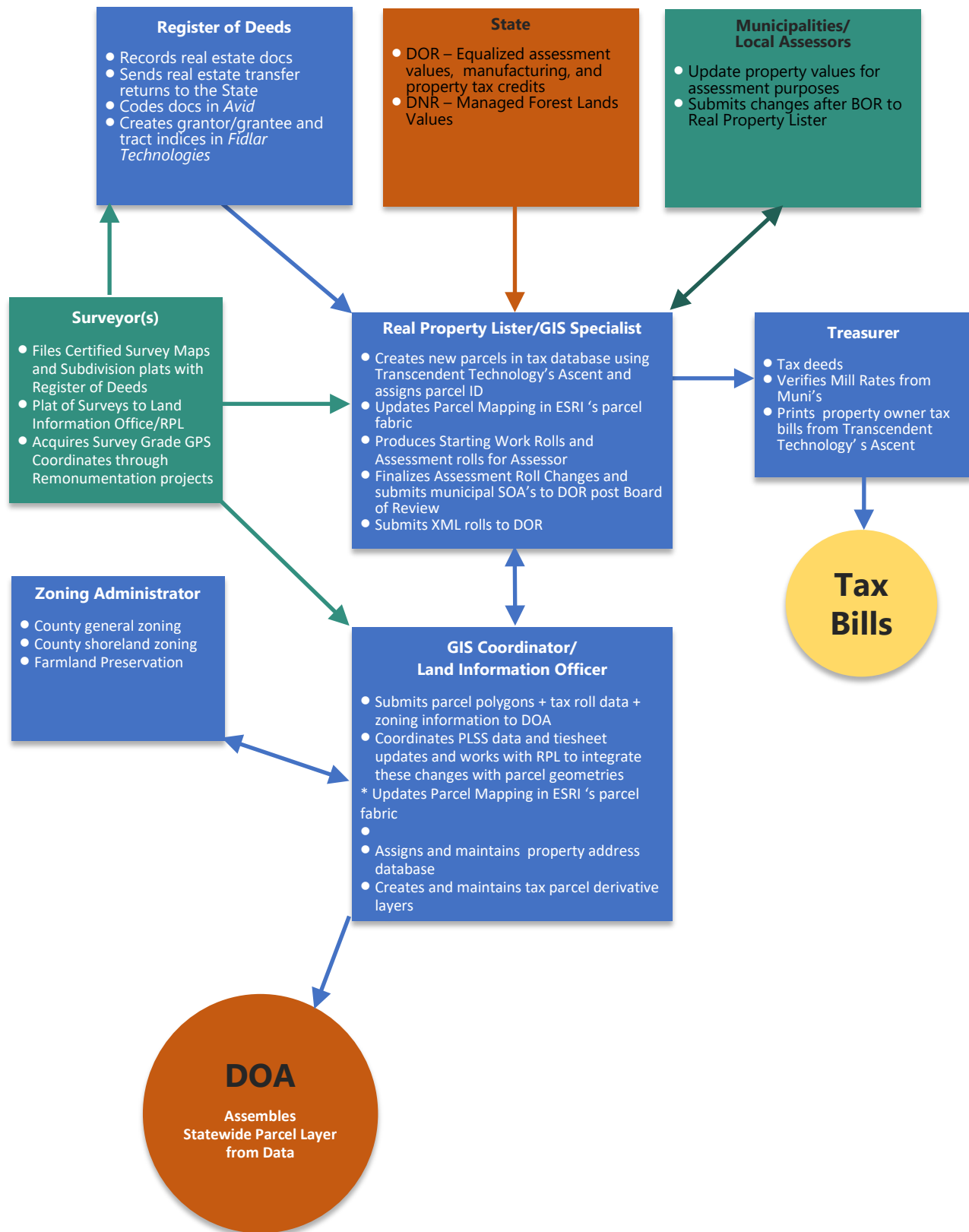
One integration requirement is listed under s. 16.967(7)(a)(1), Wis. Stats., which states that counties may apply for grants for:

- 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.



# County Parcel Data Workflow Diagram



# Rural Addressing 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

- The County maintains their GIS data in ESRI's Local Government Information Model (LGIM). This data is managed from an ArcGIS Server Standard Workgroup license housed on Microsoft Windows server running Microsoft 2017 SQL Server Express. This same server also hosts the public ArcGIS Online services such as the Parcel Viewer and Tiesheet Viewer applications. All other GIS data is stored on the file server side of this same physical machine and backed up nightly.
- The County uses Transcendent Technologies Ascent Land Records and Permit Management Suite, which is a Microsoft SQL Server Database running on a different Windows Server. This same physical machine also hosts the web based public facing portion of the Transcendent applications and serves as another file server for scanned documents and images from various land records departments.

### Software

- As noted above, Lafayette County utilizes ESRI software including 1 seat of ArcGIS Desktop Advanced, 3 seats of ArcGIS Desktop Standard, 1 seat of Spatial Analyst Extension, and 2 ArcGIS Server licenses
- Additional software used to manage land records included: Fidlar Technologies: Laredo/Tapestry, Transcendent Technologies: Ascent Land Records and Permit Management, Spillman: Flex
- County currently uses ArcGIS Pro: 2.8

### Website Development/Hosting

- Lafayette County hosts its own map and application gallery in-house which includes a Parcel and Survey/Tiesheet viewer found here:  
<https://lafay.maps.arcgis.com/apps/webappviewer/index.html?id=2b7233d6dbf2418c9ced28f6b7e836d1>

### Metadata and Data Dictionary Practices

#### Metadata Creation

- **Metadata creation and maintenance process:** There is no formal process for metadata creation at this time. Whenever possible, or when time allows, metadata is created or updated on Countywide datasets.

#### Metadata Software

- **Metadata software:** Metadata is maintained by the Land Information Department utilizing ESRI's ArcCatalog. This software generates metadata consistent with the FGDC Content Standard for Digital Geospatial Metadata.
- **Metadata fields manually populated:** Description fields are manually populated as needed.

### Municipal Data Integration Process

- There is no formal process developed to incorporate municipal data into the Countywide Land Information system. However, if a municipality would like to share any data with the county, specifically to be made viewable online to the public, Land Information staff will work to accommodate this request.

- The Land Information Department works with each city and village to ensure address point information is up to date and complete on a countywide level.

# 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
<a href="https://lafay.maps.arcgis.com/apps/webappviewer/index.html?id=2b7233d6dbf2418c9ced28f6b7e836d1">https://lafay.maps.arcgis.com/apps/webappviewer/index.html?id=2b7233d6dbf2418c9ced28f6b7e836d1</a>	<a href="https://gis.lafayettecountywi.org/FreeDownloads/">https://gis.lafayettecountywi.org/FreeDownloads/</a>	<a href="https://ascent.lafayettecountywi.org/AscentLandRecords/">https://ascent.lafayettecountywi.org/AscentLandRecords/</a>	<a href="https://tapestry.fidlar.com/">https://tapestry.fidlar.com/</a>

### Single Landing Page/Portal for All Land Records Data

#### URL

<https://lafay.maps.arcgis.com/apps/PublicGallery/index.html?appid=da8fbe9f3f7e4bf79d7178e007625930>

### Web Services/REST End Points

#### URL

<https://lafay.maps.arcgis.com/apps/PublicGallery/index.html?appid=da8fbe9f3f7e4bf79d7178e007625930>

## Data Sharing

### Data Availability to Public

#### Data Sharing Policy

- Lafayette County provides numerous avenues for the public to access land records. Commonly requested print maps are available to download free of charge for the County Map and App Gallery, and commonly requested digital datasets are available via FTP access. This data includes parcels, address point and street centerline, most recent orthophotos, and a yearend tax and assessment roll. Additionally, land records are available to view via either the parcel viewer web application or via Transcendent's Ascent program.
- Custom requests that involve significant staff time may incur a fee as laid out in the Lafayette County Land Information Fee Schedule. Hard copy print maps also follow this fee schedule.

#### Open Records Compliance

- Lafayette County strives to be compliant with all open records requests.

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

#### Data Sharing Restrictions

- There are few data sharing restrictions in place. The County requires a signed "Digital Data Agreement" prior to exchanging data with any entity. This agreement waives any County liability regarding accuracy or fitness of use.

#### Government-to-Government Data Sharing

- Lafayette County provides local, state, federal, and other members of the government most geospatial data for little to no cost. In the majority of cases, data that can be exchanged via email or FTP is free of charge. Custom requests that involve significant staff time may incur a fee as laid out in the Lafayette County Land Information Fee Schedule.

### Training and Education

- Staying on top of the ever-changing landscape of land records and the geospatial industry can be daunting. The Land Information Council encourages Land Info staff to participate in educational opportunities when available.
  - The Lafayette County GIS Coordinator/LIO and Real Property Lister/GIS Specialist annually attend the WI Land Information Annual conference and usually at least one of the regional conferences, LION Meetings, the WI Real Property Lister Annual State Meeting, and other relevant meetings such as: WSLs Annual Institute, ESRI WI User Group, GIPAW, Transcendent Technology user group meetings, and GovTech.
  - Staff members are encouraged to participate and serve on committees within related organizations.
  - If funding allows, Land Info staff also attend online training and workshops relevant to their field.
- If opportunities arise to further educate County Board or committee members on land information in Wisconsin, the Land Information Office provides funds for those interested to attend.

# 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.

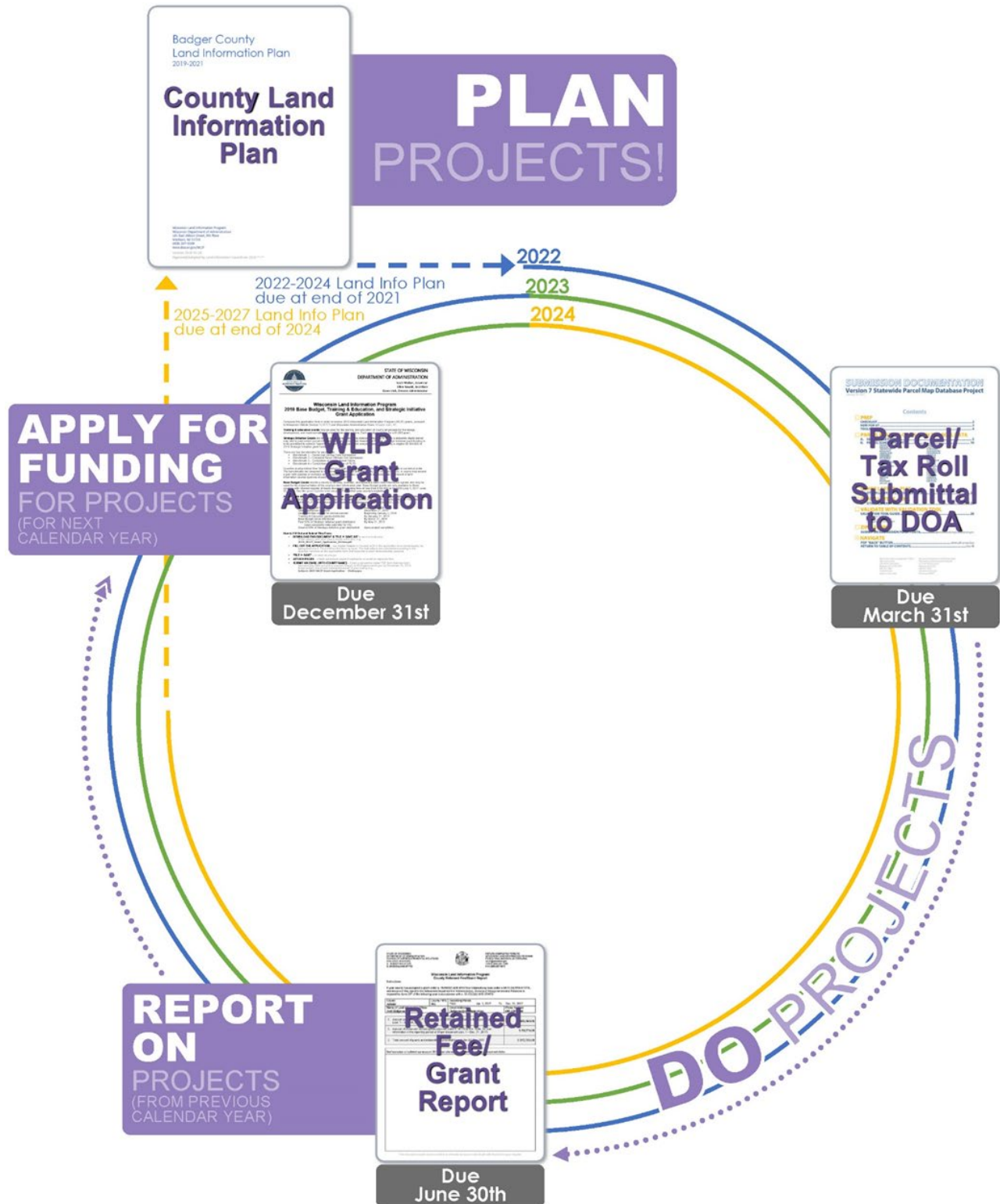


Figure 1. The WLIP Land Information Plan/Grant Project Cycle

## Project Plan for PLSS (Benchmark 4)

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

#### Project Description/Goal

##### Planned Approach

- Beginning in 2016, the County has begun bidding out large sections of the County for remonumentation and acquisition of survey grade coordinates. The goal is complete whole political townships at a time for the purpose of remapping and relisting the assessment roll. This project will be ongoing for the next several years

##### Current Status

- Tally of the total number of corners:** See PLSS Layer Status table in Chapter 2.
- Remonumentation status:** See PLSS Layer Status table in Chapter 2.
- Coordinate status (accuracy class) if known:** See PLSS Layer Status table in Chapter 2.

##### Goals

- Number of corners to be remonumented and/or rediscovered:** In 2021, the project includes 340 corners in parts of Towns of Darlington, Fayette, Lamont, Willow Springs and Wiota.
- Number to have new coordinates established:** 340
- Accuracy class for these new coordinates:** Survey Grade
- Way in which these points will be integrated into the parcel fabric:** Survey grade coordinates will imported into ESRI's parcel fabric as whole townships are completed. These will replace any lower grade coordinates. Remapping of parcels and related layers will follow.

##### County Boundary Collaboration

- Lafayette County shares section corner and tiesheet data with neighboring counties. In recent remonumentation projects, the County has reached out to neighboring counties to partner along shared lines, however those counties declined.

#### Business Drivers

- The Project Plan for PLSS is a requirement for those counties who utilize Strategic Initiative funds for work related to PLSS completion and integration.
- Improved PLSS leads to overall improved mapping in the County. This includes more accurate parcel geometries and improved County and district boundaries. The improved data effects numerous offices such as: Land Info, Planning & Zoning, Land Conservation, Treasurer, County Clerk and Emergency Management

#### Objectives/Measure of Success

- The objective is to meet Benchmark 4 (Completion and Integration of PLSS) as soon as funding allows.
- The County maintains a status map that is updated annually on progress towards 100% Remonumentation with Survey Grade Coordinates.

#### Project Timeframes

Timeline – Project Plan for PLSS **Example**		
Milestone	Duration	Date
Bid Projects annually each January	1 month each year	January 1, 2022 thru 2024
Hire contractor	1 month each year	January 1-31, 2022 thru 2024
Contractor remonumentation	10 months each year	Feb 1 – December 1, 2022 thru 2024
Project complete	1 month each year	December 31, 2022 thru 2024

#### Responsible Parties

- Projects are bid out annually to private surveyors who are responsible for meeting the guidelines laid out in each project. The Land Information Officer is responsible for drafting and administering



the contracts, with input from the appointed County Surveyor. The Land Information Officer and Real Property Lister jointly review tiesheets and update section corners within ESRI's parcel fabric.

### Estimated Budget Information

- See table at the end of this chapter.

## Project #1: Orthoimagery and LiDAR

### Project Description/Goal

- Acquire a 2023 WROC orthophoto flight and LiDAR data in 2024-2025
- **Land Info Spending Category:** Orthoimagery and LiDAR

### Business Drivers

- Routine acquisition of aerial base imagery and LiDAR data is essential to land information efforts. This data is utilized by multiple departments and the public. The previous LiDAR flight was in 2019 and the orthophoto flight was in 2020.

### Objectives/Measure of Success

- Completion of the projects.

### Project Timeframes

Timeline – Project #1 Title		
Milestone	Duration	Date
Project #1 start	–	Projected Spring 2023
Fly Orthos	–	Spring 2023
Fly LiDAR	–	Spring 2024 or 2025
LiDAR Derivatives	–	2025 or 2026
Project complete	–	2025 or 2026

### Responsible Parties

- Land Information and their chosen contractor

### Estimated Budget Information

- See table at the end of this chapter.

## Project #2: Remapping of Countywide Parcels and Enhanced Property Listing

### Project Description/Goal

- The County has begun re-parcel mapping following completed PLSS projects for whole municipalities. As part of this project they are cleaning up the assessment roll utilizing the Land Records System.
- **Land Info Spending Category:** Digital Parcel Mapping and Other Parcel Work

### Business Drivers

- Parcel mapping is essential to County functions and utilized by numerous public and private entities. Increased accuracy and elimination of errors helps tax payers and improves parcel derivatives.

### Objectives/Measure of Success

- Continued completion of whole municipalities. The end goal is to remap the whole county.

### Project Timeframes

- Ongoing for foreseeable future, although it is hoped to complete at least 6 more additional municipalities by the end of this plan cycle.

## Responsible Parties

- Land Information Department

## Estimated Budget Information

- See table at the end of this chapter.

## Project #3: Expansion of Countywide Applications

### Project Description/Goal

- Expansion of in-house custom applications to support Emergency Management, Economic Development, and other departments.
- **Land Info Spending Category:** Website Development/Other

### Business Drivers

- Custom digital applications can increase efficiency for County departments and help to further promote tourism and economic development in the County.

### Objectives/Measure of Success

- Completion of applications

### Project Timeframes

- Completed apps for Emergency Management, Health, and Tourism by the end of 2022, with additional apps to follow.

## Responsible Parties

- Land Information with input from various County Departments.

## Estimated Budget Information

- See table at the end of this chapter.

## Project #4: Indexing and Digitizing Documents

### Project Description/Goal

- The County plans to continue to digitize and index land information documents such as tiesheets, plats of survey, zoning permits, highway plans, etc. As part of this project a document imaging system may also be incorporated.
- **Land Info Spending Category:** Other

### Business Drivers

- Documents that are digitized and indexed are easily served to the public and retrieved internally. This leads to more open government and increased efficiency by departments.

### Objectives/Measure of Success

- Completely scan and index all document types identified above.

### Project Timeframes

- Ongoing

## Responsible Parties

- Land Information and related departments

## Estimated Budget Information

- See table at the end of this chapter.

## Project #5: Enhanced Emergency Service Datasets for NextGen911

### Project Description/Goal

- Clean up and add on to emergency service datasets to meet NextGen 911 standards
- Link Building footprint data from 2019 LIDAR collection to Structure Sites data

- **Land Info Spending Category:** Address Points, Structure Sites, Centerlines, Other

### **Business Drivers**

- Improved data for emergency services.

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

- Completion and update of data to meet NextGen 911 standards.

### **Project Timeframes**

- TBD

### **Responsible Parties**

- Land Information and Sheriff's Departments

### **Estimated Budget Information**

- See table at the end of this chapter.

## Completed Projects

The following is a list of some of the major projects that have been accomplished during the last plan cycle.

- The remonumentation and acquisition of survey grade coordinates on approximately 528 section corner monuments in 2019, 2020, and 2021.
- Implementation of the Lafayette County Land Division Ordinance, approved on March 19, 2019 and updated on September 21, 2021.
  - The ordinance was developed to regulate and control the division of land within the unincorporated areas of the County. The ordinance applies to all acts of division of a lot, parcel, or tract of land, including divisions under land contract, where such act of division creates one or more new lots, parcels, or tracts that are 15 acres or less in area.
- Migration of GIS Server and data to a new virtual Windows Server 2019 Standard server in 2020.
- Migration\Upgrade of Parcel Fabric from ArcMap to ArcPro 2.8 in February 2021.
- Acquisition of 2019 LiDAR data and 2020 Ortho Imagery data. The LiDAR data became available to the public in January 2020 via Ayres Associates LiDAR Online application. Data is viewable here:  
<https://www.arcgis.com/apps/webappviewer3d/index.html?id=a3f80240bc7e494db1e8d2d48289d15a>
- Continued improvement to overall parcel geometries
- Continued work to update data to become NG911 compliant on datasets including improved address points, street centerlines, Emergency Service Number boundaries, and Law, Fire, EMS, and First Responder Districts
- The continuation of scanning and indexing of records including some of the following: Planning and Zoning permits, Tiesheets, Plats of Survey, & Original Plat maps.
- Creation of the Lafayette County, Wisconsin Story Map to promote tourism in the County. Map is viewable here:  
<https://storymaps.arcgis.com/stories/f053d96e60b84dc2bff62d44836e07f9>
- Overall advancements to quality to existing GIS datasets that has been accomplished through improved communications with fellow offices
- The production of numerous print maps, the most popular of which include the Tri-County ATV map and the County Rural Addressing Map

## Estimated Budget Information (All Projects)

### Estimated Budget Information

Project Title	Item	Unit Cost/Cost	Land Info Plan Citations <small>Page # or section ref.</small>	Project Total
<b>1) Work towards 100% PLSS remonumentation with survey grade GPS coordinates</b>	County Surveyor	\$2400/yr x 3 = \$7,200	Page 9, 232	<b>\$235,200</b>
	2022 Contract	\$78,000		
	2023 Contract	\$75,000		
	2024 Contract	\$75,000		
<b>2) 2023 WROC Aerial Imagery &amp; 2024-2025 LiDAR</b>	Aerials	\$53K	Page 12-13, 30	<b>\$158,000</b>
LiDAR	\$105K			
<b>3) Continued remapping of Countywide Parcels and Enhanced Property Listing</b>	GIS Coordinator & Real Property Lister Position	40% of \$80,000 \$32,000/yr		<b>\$96,000+</b>
<b>4) Expansion of ArcGIS Online applications</b>	GIS Coordinator position	2022- \$15K Following years TBD	Page 26, 34	<b>\$15,000+</b>
<b>5) Indexing and Digitizing Documents</b>	GIS Coordinator position	5% of \$80,00 \$4,000/yr		<b>\$12,000</b>
<b>6) Creation of enhanced emergency service datasets to accommodate NextGen911</b>	Consultant	\$40,000	Page 14, 19, 34	<b>\$40,000</b>
<b>7) Ongoing Admin Costs (software maintenance, staff education, office supplies, etc)</b>		Approximately \$10K/year for 3 years		<b>\$30,000+</b>
<b>GRAND TOTAL</b>				<b>\$586,200+</b>

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

# 5 APPENDIX A

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## County Approval Dates and Documentation

### GIS/IT Committee

This plan was approved by the GIS/IT Committee at the November 9, 2021 meeting. Committee minutes are available to read on the County Website under the [Agendas and Minutes](#) page.

### Land Information Council Approval

This plan was approved by the Lafayette County Land Information Council at the December 9, 2021 meeting. Council minutes are available to read on the County Website under the [Agendas and Minutes](#) page.

### County Board Approval

The 2022-2024 Land Records Modernization Plan was adopted as Resolution 71-21 by the Lafayette County Board at the December 14, 2021 Meeting. County Board minutes are available to read on the County Website under the [Agendas and Minutes](#) page.