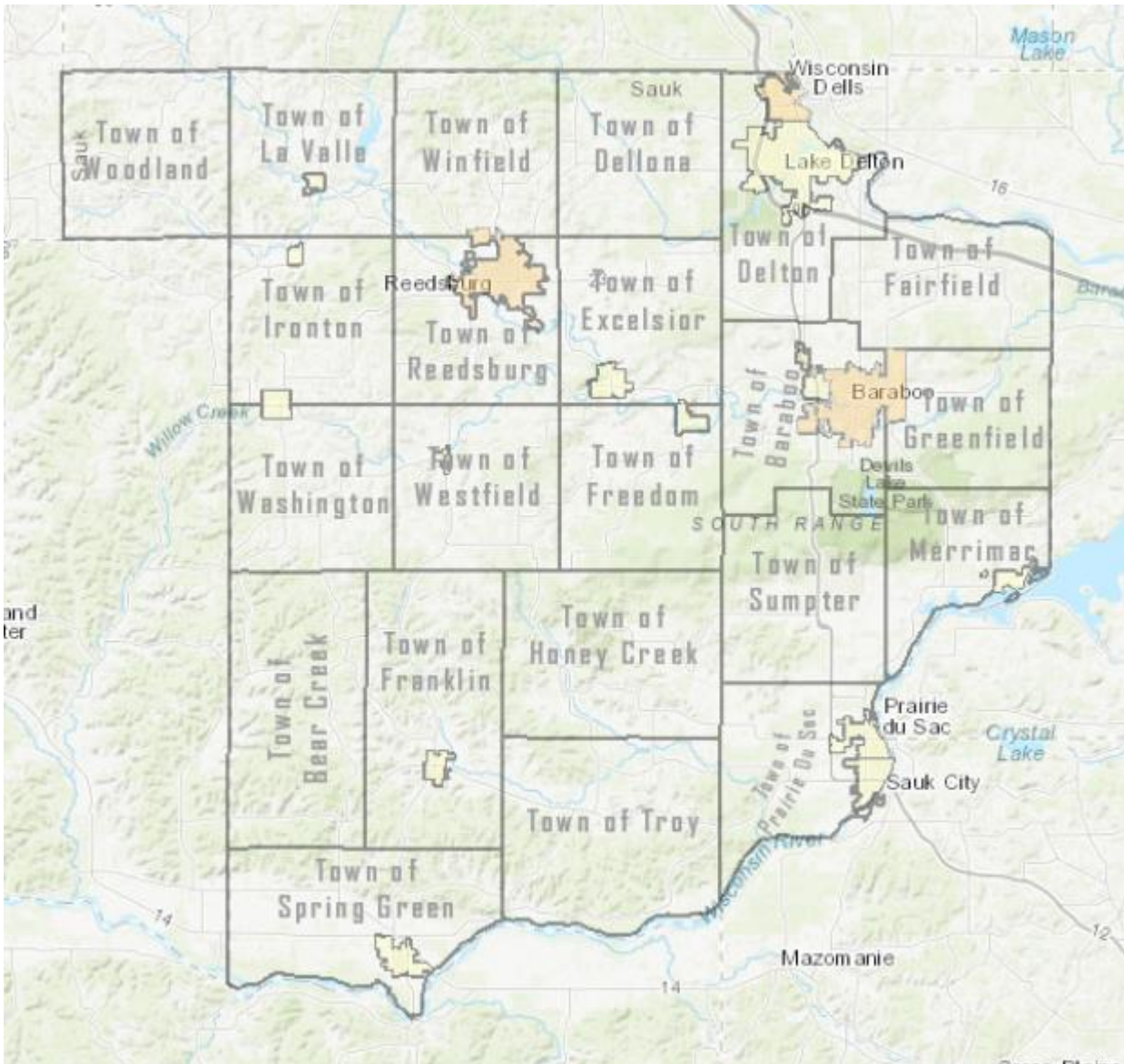


Sauk County Land Information Plan

2019-2021



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EXECUTIVE SUMMARY

About this Document. This document is a land information plan for Sauk County prepared by the land information officer (LIO) and the Sauk 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. For 2018, Sauk County was awarded \$51,000 in WLIP grants, and retained a total of \$135,792 (2017) 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 Sauk County. Land information is central to county operations, as many essential services rely on accurate and up-to-date geospatial data and land records. Our goal is to continue to integrate and coordinate the efforts of all county departments into a centralized system. This system allows Sauk County to provide more effective and efficient programs and services. With this plan, we wish to illustrate the role various departments will play in the land records modernization activities of Sauk County over the next 3 years.

In preparing this plan there was extensive communication with multiple departments who have an interest in the Land Records Modernization Plan update. Each department's input was essential in accurately projecting the county's future plans. The intention is to provide a plan that includes as many departmental goals and objectives as possible.

Mission of the Land Information Office. The Mission of Land Information/GIS is land records modernization, utilizing retained fees from the recording of documents in the Register of Deeds Office for improving the availability of Sauk County's land information.

In the next three years, Sauk County's Land Information/GIS strives to provide greater access and utilization of GIS, substantial improvements in parcel mapping accuracy, and the ability to provide increased response to the needs of county staff and residents. Through further consolidation of all land information resources, we will eliminate duplication of information, creating a more integrated and centralized repository for data sharing. This repository will serve as a portal for data distribution throughout county government.

Land Information Office Projects. A main focus of Land Information in Sauk County over the next three years will be to achieve goals and objectives related to the State of Wisconsin's vision for the Statewide Parcel Map Database Project. The County's goals will focus on completion of V4 & related Benchmarks, which will leverage Strategic Initiative Grant Funding to achieve the State's mission for providing parcel information online in a searchable format.

Focused on its mission, Sauk County has the following goals:

- Develop improved standards for the creation and maintenance of land information.
- Provide for increased land records information on the internet.
- Integrate and consolidate all land records data maintained within county departments into a centralized relational database model.
- Streamline & improve access to and retrieval of land records information for county, public and other governmental agencies.
- Inform and educate all users of improved & updated land information system.
- Improve upon the accuracy and reliability of information.
- Develop applications tailored to the specific needs of individual departments, agencies and public users
- Provide regular training for all users of the GIS website and provide necessary updates.

To realize this mission, in the next 3 years, Sauk County hopes to have the resources to focus on these projects:

Sauk County Land Information Projects: 2019-2021

Project#1: Incorporate PLSS into Parcel Fabric.

Project#2: Create Current Land Use layer

Project#3: Acquire Orthophotography 2020

Project#4: Acquire LiDAR 2020

Project#5: Re-Survey books – data on GIS

Project#6: Sauk County Abstract Title records to ROD indexing system.

Project#7: Floodplain to Permitting System – Land Use Permits.

Project#8: Georeference 1938 Wisconsin Land Economic Inventory Map.

Project#9: Inventory of Parks within the GIS

Project#10: Inventory of Trails within the GIS

Project#11: Manure Pit Inventory.

Project#12: Quarry Inventory. Link to Permitting System.

Project#13: Landfill Inventory. Link to permitting System.

Project#14: Online focused application for Surveys

Project#15: Building Footprints - attribute

Project#16: Farmland Conservation Program/Compliance Reports.

Project#17: Address Ranges for road centerlines.

Project#18: Cellular Tower Inventory.

Project#19: Link Parcel Data to county assessor data inventories.

Project#20: Highway & ROW plan inventory, incorporating State information.

Project#21: Link GIS features to LandShark.

Project#22: Public credit card online access.

Project#23: Incorporate CPZ System information into GIS.

These projects represent and incorporate various County needs, maximizing retained fees and grant monies to benefit the county's interests. These projects include work related to and for municipalities within the County. With the ability to apply for Strategic Initiative funding, some of these projects will be prioritized over the next 3 years, allowing Sauk County to provide better land records services to its customers.

The remainder of this document details what Sauk County's status is in completion and maintenance of the WLIP map data layers, known as Foundational Elements, summarizing current and future land information

projects.

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 2016-2018 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 Badger County is meeting these benchmarks appears in the Foundational Elements section of this plan document.

County Land Information System History and Context

Since the first WLIP grants in 1990, Sauk County has strived to make land records modernization a priority. The first grant projects were designed to acquire GPS coordinates and Section Corner Remonumentation; laying the foundational parcel groundwork. WLIP grant funding provided the mechanism necessary to get the County parcels initially mapped.

Subsequent grants and retained fees have since provided the means for the County to continually improve upon its parcel mapping; creating baselayers, datasets, and integrating database information. The County's first digital maps were made available online in 2001, with its first version of a GIS mapping website around 2003.

Currently we have an online mapping GIS website that provides the public with essential information. This information is derived from data maintained by the MIS (Mapping), Land Conservation, Planning and Zoning, Treasurer/Real Property, and Register of Deeds Departments. The implementation of this land information system has benefited Sauk County by reducing duplication of efforts in processing and recording land information, standardizing land information data, correcting inaccurate or problem data.

County mapping has now evolved to include much more detailed information; creating a fully integrated County GIS, incorporating maps and data from numerous departments and sources. This data includes tax parcels, assessments, Orthophotos, contour elevations, zoning, floodplain, building footprints, and much more.

The County has also developed focused applications that allow users to get customized information about a specific topic. These sites can be viewed using a browser, desktop, or a mobile device. Sauk County has embraced these new technologies, leveraging WLIP funding resources, to provide more accurate land information to its consumers and better services to its citizens.

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 2018, is the second post-Act 20 required update.

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 Sauk County Land Information Council, and others as listed below.

Sauk County Land Information Council and Plan Workgroup

Name	Title	Affiliation	Email	Phone
*Kelly Felton	Cartographer/GIS Specialist, Land Information Officer	Sauk County Land Information/GIS	kelly.felton@saukcountywi.gov	608-355-3240
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*Sarah Brown	Real Property Listing Manager/Deputy Treasurer	Sauk County Treasurer/Real Property	sarah.brown@saukcountywi.gov	608-355-3275
*William F. Wenzel	County Board Supervisor	Sauk County County Board	william.fwenzel@saukcountywi.gov	608-643-2202
*Steve Pate	Coordinator	Sauk County Management Info Systems	steve.pate@saukcountywi.gov	608-355-3555
*Tom Gavin	Realtor	First Weber Realty	tfgavin@firstweber.com	608-356-7711
*Jeff Jelinek	Emergency Management (EMBS) Administrator	Sauk County EMBS	jeff.jelinek@saukcountywi.gov	608-355-4410
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* Land Information Council Members designated by asterisk

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	<ul style="list-style-type: none"> 2929 (Total Corners in GIS = 3128)
Number and percent of PLSS corners capable of being remonumented in your county that have been remonumented	<ul style="list-style-type: none"> 3030 have been remonumented – 80% Total of 3777 - 2929 plus 848 (estimate number w/Center of Sections)
Number and percent of remonumented PLSS corners with survey grade coordinates (see below for definition) <ul style="list-style-type: none"> SURVEY GRADE – coordinates collected under the direction of a Professional Land Surveyor, in a coordinate system allowed by 236.18(2), and obtained by means, methods and equipment capable of repeatable 2 centimeter or better precision SUB-METER – point precision of 1 meter or better APPROXIMATE – point precision within 5 meters or coordinates derived from public records or other relevant information 	<ul style="list-style-type: none"> 2460 – 65%
Number and percent of survey grade PLSS corners integrated into county digital parcel layer	<ul style="list-style-type: none"> 1381 -56%
Number and percent of non-survey grade PLSS corners integrated into county digital parcel layer	<ul style="list-style-type: none"> 661 – 50% (1317 non-survey grade PLSS corners)
Tie sheets available online?	<ul style="list-style-type: none"> Yes
Percentage of remonumented PLSS corners that have tie sheets available online (whether or not they have corresponding coordinate values)	<ul style="list-style-type: none"> 100% - 3030 total remonumented including 15 Witness corners
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	<ul style="list-style-type: none"> 100% - 3030
PLSS corners believed to be remonumented based on filed tie-sheets or surveys, but do not have coordinate values	<ul style="list-style-type: none"> 585 – 19%
Approximate number of PLSS corners believed to be lost or obliterated	<ul style="list-style-type: none"> Unknown
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"> County Corner Number created by Surveyors Department Wisconsin Corner Point Identification 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?	<ul style="list-style-type: none"> No
Total number of PLSS corners along each bordering county	<ul style="list-style-type: none"> 88 – Juneau; 13-Vernon; 81 –Richland; 24 – Columbia (Total 206)
Number and percent of PLSS corners remonumented along each county boundary	<ul style="list-style-type: none"> 189 – 92%
Number and percent of remonumented PLSS corners along each county boundary with survey grade coordinates	<ul style="list-style-type: none"> 156 – 76%
In what ways does your county collaborate with or plan to collaborate with neighboring counties for PLSS updates on shared county borders ?	<ul style="list-style-type: none"> We will work with all surrounding counties to collaborate regarding PLSS updates, during mapping implementation into the PLSS we will work to update those shared county border corners.

Custodian

- Sauk County Surveyor

Maintenance

- As able, utilizing WLIP retained fees as part of Sauk County bounty program funding

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

- **., HARN, Height Mod., etc.**

Layer Status

- HARN network set in Sauk County December 1999
- All stations tied to the Wisconsin High Precision Geodetic Network (WHPGN) based upon North American Datum of 1983(1997)-NAD 83(1997) adjustment

Custodian

- Sauk County Land Information/GIS

Maintenance

- No planned maintenance of this network at this time.

Standards

- Sauk County HARN: 1999 Survey, Sauk County Coordinates U.S. Foot NAD 83 97 Adjustment
- Sauk County's HARN network consists of 15 Secondary [Order B, Class 2 (2-PPM)] and 10 Primary [Order B, Class 1(1-PPM)] stations.

Parcel Mapping

Parcel Geometries

Layer Status

- **Progress toward completion/maintenance phase:** County-wide parcel layer is complete and current. In Sauk County, 100% of the county's parcels are available in a commonly-used digital GIS format.
- **Projection and coordinate system:** NAD 1983 HARN WISCRS Sauk County US 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.
- **Esri Parcel Fabric/LGIM Data Model:**
 - The county does use or plan to implement the Esri Parcel Fabric Data Model, and/or Esri's Local Government Information Model.
- **Online Parcel Viewer Software/App and Vendor name:**
 - Esri Web AppBuilder for ArcGIS - Custom - In-house

- **Unique URL path for each parcel record:**
 - YES.
 - Parcel attribute information viewable - detailed assessment data, tax bill for parcel, recorded document information, link to zoning information
 - URL is stable
 - Unique URL values can be exported

Custodian

- Sauk County Treasurer/Real Property

Maintenance

- **Update Frequency/Cycle.** Parcel polygons updated as needed.
- Data stored on secure server, along with backup protocol.
- Sauk County GIS Tax Parcel iSite is updated as parcels are revised.

Standards

- **Data Dictionary:**
 - Available in human-readable format. Field definitions exist for each attribute
- <http://gis.co.sauk.wi.us:3344/webappbuilder/apps8/>
- [S.59.72\(2\)\(a\), Wis. Stats.](#) Presence of all nine "Act 20" attributes
- FGDC's Cadastral Standards for the National Spatial Data Infrastructure <https://www.nationalcad.org/CadStandards/CadStand.html>
- Local Government standards compliance
- WLIA's Digital Parcel Mapping Standard <https://www.wlia.org/wp-content/uploads/2013/12/Parcel-Mapping.pdf>

Assessment/Tax Roll Data

Layer Status

- **Progress toward completion/maintenance phase:** NA
- **Tax Roll Software/App and Vendor name:** Ascent Land Records Suite – Transcendent Technologies
- **Municipal Notes:** NA

Custodian

- Sauk County Treasurer/Real Property

Maintenance

- **Maintenance of the Searchable Format standard:** To maintain the Searchable Format standard, the county will maintain the system on a regular basis, updates and modifications made as needed to maintain a seamless link to the County's GIS data, reflecting the currency of the assessment/tax roll data
- **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. 59.72\(2\)\(a\), Wis. Stats.](#) Presence of all nine "Act 20" attributes
- [s. 59.72\(2\)\(a\), Wis. Stats.](#) Crosswalk of attributes

Non-Assessment/Tax Information Tied to Parcels

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

Layer Status

- Sauk County Non-Assessment/Tax Information is maintained in an Enterprise geodatabase, using Esri's LGIM

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol
- Updated as needed.
- Intend to improve this data in future. Several projects within this plan tied to this type of data acquisition.

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

ROD Real Estate Document Indexing and Imaging

Layer Status

- **Grantor/Grantee Index:** Digitized Grantor/Grantee index from 1986 to present. Funds in place to digitize from 1986 back to 1850(First). Presently, 1850-1986 indexes are in books. Grantor/Grantee index from 1986 to present also available online.
- **Tract Index:** Tract index based on PLSS from 2004 to present (All document types). Would like to incorporate parcel numbers back 20 years, if possible (**Second**). Also plan to tract backwards as far as possible (**Third**). Tract index 2004 to present also available online.
- **Imaging:** All documents 1976 to present available digitally. All conveyance documents (including deeds, easements, judgments, and land contracts) 1895 to present available digitally. Document images from 1986-present also available online
- **ROD Software/App and Vendor Name:**
 - **Landshark** – from contractor/vendor Trimin

Custodian

- County Register of Deeds

Maintenance

- Management Information Systems (IT) back-up (off site). Software vendors provide upgrades and fixes. Scanning is verified by ROD audit daily. Index entry audited by system users, including, but not limited to ROD staff, property lister, GIS staff, and innumerable title companies and attorneys.

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:** 2011
- **Accuracy:** All data in NAD_1983_HARN_WISCRS_Sauk_County_Feet. Dataset developed to generate contours meeting National Map Accuracy Standards for scale 1:600
- **Post spacing:** **
- **Contractor's standard, etc.:** **
- **Next planned acquisition year:** 2020

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol
- Updates 5-10 year increments as needed

Standards

- A triangulated irregular network (TIN) model was created from the Bare Earth LAS and breaklines. The TIN was processed to create two-foot contours
- Dataset developed to generate contours meeting National Map Accuracy Standards for scale 1:600
- Two-foot contours meeting National Map Accuracy Standards were generated from the TIN.

LiDAR Derivatives

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

Layer Status

- Acquired with LiDAR Imagery, Fall 2011
- The Bare Earth DTM & DEM were developed from LAS points and breaklines collected from a LiDAR flight flown in the Fall of 2011, as part of the Sauk County 2011 project. The DTM is used to develop a TIN (Triangulated Irregular Network). The DEM is a raster data set in ESRI GRID format with an X, Y, Z value located at the center of each 10 ft. by 10 ft. cell.
- The Breakline vectors were developed from the LiDAR points to define hard and soft breaklines, mostly hydrography, in the terrain surface, as part of the Sauk County 2011 lidar Project. The 2012 breaklines dataset contains the hydrographic breaklines necessary for terrain surface development. This dataset establishes the deviation parameters for the development of derivative terrain data. File formats include: ESRI shapefile and AutoCAD DWG format. Coupled with the classified lidar point cloud this data set is the 2012 digital terrain model.
- The Bare Earth LAS was developed from a LiDAR flight flown in the Fall of 2011 as part of the Sauk County 2011 project. The 2012 Bare Earth LAS and SHP files contain a subset of the total LiDAR point cloud. This dataset constitutes the bare terrain surface data set with all other classifications omitted. File formats include: ESRI Shapefile and LAS format. Coupled with the breakline features this data set is the 2012 Sauk County digital terrain model.
- The 2012 two-foot contours were developed as a derivative product for use in general surface modeling and depiction. File formats include ESRI Shapefile and AutoCAD DWG format.

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updates 5-10 year increments as needed.

Standards

- The DEM was generated from a DTM meeting ASPRS class II Standards. Two-foot contours meeting National Map Accuracy Standards were generated from the TIN.

Other Types of Elevation Data

Layer Status

- County Address data is complete and current.
- All of Sauk County's Address Data is maintained in ESRI file geodatabase format
- NAD 1983 HARN WISCRS Sauk County US Feet
- Address Data is maintained using the Esri Parcel Fabric Data Model, and Esri's Local Government Information Model

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updated as needed.

Standards

- FGDC Postal Address Data Standard
- NENA MSAL &/or MSAG
- NG9-1-1 compliant –PSAP routing

Orthoimagery

Orthoimagery

Layer Status

- **Most recent acquisition year:** 2015
- **Resolution:** 6" Countywide True Color Orthophotography resolution; map scale 1" = 100'
- **Contractor's standard:** ASPRS Class I accuracy standards
- **Next planned acquisition year:** 2020
- **WROC participation in 2020:** Confirmed participating in WROC 2020

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Sauk County anticipates acquiring orthophotography every 5 years or so.

Standards

- ASPRS Class 1

Historic Orthoimagery

Layer Status

- Archival of past Orthophotography: 2001, 2005, 2010.

Custodian

- Sauk County Land Information/GIS

Maintenance

- No maintenance of this data, archived data incorporated into GIS datasets and provides historical information.

Standards

- Kept to the standards set forth at the time each flight and acquisition took place

Other Types of Imagery

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

Layer Status

- 4-band Infra-red Imagery, acquired Spring 2015 Orthophotography flight

Custodian

- Sauk County Land Information/GIS

Maintenance

- No specific plans at this time. Should need for updated data occur, will plan and budget accordingly

Standards

- ASPRS Class 1

Address Points and Street Centerlines

Address Point Data

Layer Status

- County Address data is complete and current.
- All of Sauk County's Address Data is maintained in ESRI file geodatabase format
- NAD 1983 HARN WISCRS Sauk County US Feet
- The County's address polygon model directly integrates tax/assessment data as parcel attributes
- Address Data is maintained using the Esri Parcel Fabric Data Model, and Esri's LGIM

Custodian

- Sauk County Land Information/GIS

Maintenance

- Maintaining updates on a weekly basis as able pending workload and staffing. Improving in 2016 to more daily basis.
- Data stored on secure server, along with backup protocol.
- Updated as needed

Standards

- FGDC Postal Address Data Standard
- NENA MSAL &/or MSAG
- NG9-1-1 compliant –PSAP routing

Building Footprints

Layer Status

- Acquired along with Orthophotography, Spring 2015.

Custodian

- Sauk County Land Information/GIS

Maintenance

- This data layer will be updated and new data acquired in the future as the need arises.

Standards

-

Other Types of Address Information

e.g., Address Ranges

Layer Status

- County Address data is complete and current.
- All of Sauk County's Address Data is maintained in ESRI file geodatabase format
- NAD 1983 HARN WISCRS Sauk County US Feet
- Address Data is maintained using the Esri Parcel Fabric Data Model, and Esri's Local Government Information Model

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updated as needed.

Standards

- FGDC Postal Address Data Standard

- NENA MSAL &/or MSAG
- NG9-1-1 compliant –PSAP routing

Street Centerlines

Layer Status

- County Street Centerline data is complete and current.
- All of Sauk County's Street Centerline Data is maintained in ESRI file geodatabase format
- NAD 1983 HARN WISCRS Sauk County US Feet
- Street Centerline Data is maintained using the Esri Parcel Fabric Data Model, and Esri's Local Government Information Model

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updated as needed.

Standards

- FGDC Postal Address Data Standard
- NENA MSAL &/or MSAG
- NG9-1-1 compliant –PSAP routing

Rights of Way

Layer Status

- County Rights of Way data is complete and current.
- All of Sauk County's Rights of Way Data is maintained in ESRI file geodatabase format
- NAD 1983 HARN WISCRS Sauk County US Feet
- Rights of Way Data is maintained using the Esri Parcel Fabric Data Model, and Esri's Local Government Information Model

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol..
- Updated as needed.

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

Trails

e.g., Recreational Trails

Layer Status

- County Trails data is complete and current for ATV, Bike, Snowmobile and IceAge Trails information.
- All of Sauk County's Trails Data is maintained in ESRI file geodatabase format
- NAD 1983 HARN WISCRS Sauk County US Feet
- Trails Data is maintained using the Esri Parcel Fabric Data Model, and Esri's Local Government Information Model

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updated as needed.

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

Land Use

Current Land Use

Layer Status

- No current Land Use Data.
- Sauk County's goal is to create and maintain this data in the near future.

Custodian

- Sauk County Land Information/GIS

Maintenance

- Does not exist

Standards

- [s. 66.1001, Wis. Stats.](#) Comprehensive planning.

Future Land Use

Layer Status

- No current Future Land Use Data

Custodian

- Sauk County's goal is to create and maintain this data in the near future

Maintenance

- Current – Municipalities
- Future - County

Standards

- [s. 66.1001, Wis. Stats.](#) Comprehensive planning.
- Future land use maps are typically created through a community's comprehensive planning process. Future land use mapping for a county may be a patchwork of maps from comprehensive plans adopted by municipalities and the county.

Zoning

County General Zoning

Layer Status

- The County does maintain a GIS representation of county general zoning boundaries.
- County Zoning data is complete and current.
- Sauk County Zoning Data is maintained in an Enterprise geodatabase, using Esri's LGIM
- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updated as needed.

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

Shoreland Zoning

Layer Status

- The County does maintain a GIS representation of county shoreland zoning boundaries.
- County Shoreland Zoning data is complete and current.
- Sauk County Zoning Data is maintained in an Enterprise geodatabase, using Esri's LGIM
- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updated as needed.

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

Farmland Preservation Zoning

Layer Status

- The County does maintain a GIS representation of county farmland preservation zoning boundaries
- **Year of certification:** 2014
- County Special Purpose Zoning data is complete and current.
- Sauk County Zoning Data is maintained in an Enterprise geodatabase, using Esri's LGIM
- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- GIS dataset is updated when parcels are rezoned.
- Updated as needed.

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

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.
- **Letters of Maps Change** – FEMA Flood Insurance Rate Maps (FIRMs) can be changed through "Letters of Maps Change," which is comprised of a few things: Letters of Map Amendment, Letters of Map Revision, and Letters of Map Revision Based on Fill. These are documents issued by FEMA that officially remove a property and/or structure from the floodplain. They are collectively called Letters of Map Change.
 - These used to be sent to County Zoning office (now Conservation, Planning & Zoning (CPZ)), but have not received these in many years. Last update to FIRM maps was done after 2011 LiDAR acquired.
- County Floodplain zoning data is complete and current.
- Sauk County Zoning Data is maintained in an Enterprise geodatabase, using Esri's LGIM
- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updated as needed.

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

Airport Protection

Layer Status

- The County does maintain a GIS representation of airport protection zoning boundaries.
- **Airport protection zoning map depicts:**
 - Height limitation restrictions
 - General zoning overlay for airport protection

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updated as needed.

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

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

-

Custodian

- Contact Municipality

Maintenance

-

Standards

- <https://docs.legis.wisconsin.gov/statutes/statutes/59/VII/72>

Administrative Boundaries

Civil Division Boundaries

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

Layer Status

- Sauk County Administrative Boundaries are changed by local municipalities per State rules. Updates are done annually to incorporate municipal boundary changes and annexations. Information is sent to US Census yearly regarding these updates.
- Sauk County Administrative Boundaries data is complete and current.
- Sauk County Administrative Boundaries Data is maintained in an Enterprise geodatabase, using Esri's LGIM
- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.

- Updated yearly for municipal boundaries and annexations.

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

School Districts

Layer Status

- **Progress toward completion/maintenance phase:** Maintenance
- **Relation to parcels:** School Districts are tied to parcels by District code
 - **Attributes linked to parcels:** School District code & name
- Sauk County School Districts are complete and current.
- Sauk County School Districts Data is maintained in an Enterprise geodatabase, using Esri's LGIM
- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- School District data is updated as needed.

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

Election Boundaries

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

Layer Status

- Sauk County Election Boundaries are updated per State rules. Updated based upon US Census taken every 10 years.
- Sauk County Election Boundaries data is complete and current.
- Sauk County Election Boundaries Data is maintained in an Enterprise geodatabase, using Esri's LGIM
- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updated yearly for municipal boundaries and annexations

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

Utility Districts

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

Layer Status

- Developed mostly as Easements related to parcel data in Parcel Fabric framework. Maintained in an Enterprise geodatabase, using Esri's LGIM

Custodian

- Sauk County Land Information/GIS

Maintenance

- Updated as necessary.

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

Public Safety

e.g., Fire/Police Districts, Emergency Service Districts, 911 Call Center Service Areas, Public Safety Answering Points, Healthcare Facilities

Layer Status

- Ambulance, Fire, ESN boundaries data.

Custodian

- Sauk County Land Information/GIS

Maintenance

- Updated as necessary

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

Lake Districts

Layer Status

- Don't have this as county maintained data at this time.

Custodian

-

Maintenance

-

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

Native American Lands

Layer Status

- Don't have this at this time.
- Not a specific data layer in GIS.

Custodian

-

Maintenance

-

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

Other Administrative Districts

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

Layer Status

- County and State Parks Maintained in an Enterprise geodatabase, using Esri's LGIM.
- Project within this plan to expand and create more current information

Custodian

- Sauk County Land Information/GIS

Maintenance

- Updated as needed.

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

Other Layers

Hydrography Maintained by County or Value-Added

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

Layer Status

- Updated with the Spring 2010 Orthoimagery acquisition. Maintained in an Enterprise geodatabase, using Esri's LGIM.

Custodian

- Sauk County Land Information/GIS

Maintenance

- Updated as needed per latest Orthoimagery.

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

Cell Phone Towers

Layer Status

- Older data layer that was developed is not being used or maintained.
- Cell Towers noted as easements within GIS.
- Have a layer developed related to Communication Towers (radio stations), within Points of Interest on Sauk County Zoning App
- Planned layer for future

Custodian

- Sauk County Land Information/GIS (future)

Maintenance

- None at this time

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

Bridges and Culverts

Layer Status

- Culverts was acquired from FEMA in recent years. Point feature data.
- Working to improve culvert information. Working to develop bridge information

Custodian

- Outside sources - FEMA
- Sauk County Land Information/GIS

Maintenance

- As needed. Hope to obtain more accurate data related to both bridges and culverts in the future

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

Other

e.g., Pipelines, Railroads, Non-Metallic Mining, Sinkholes, Manure Storage Facilities, etc.

Layer Status

- Railroads maintained outside the Parcel Fabric as a layer within county GIS

Custodian

- Sauk County Land Information/GIS

Maintenance

- Updated in conjunction with parcel, zoning and related land information layers, as needed.
- Hope to capture more of this "other" data in the future. Listed as some projects with this plan.

Standards

- [s. 59.72\(2\)\(a\), Wis. Stats.](#)

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.

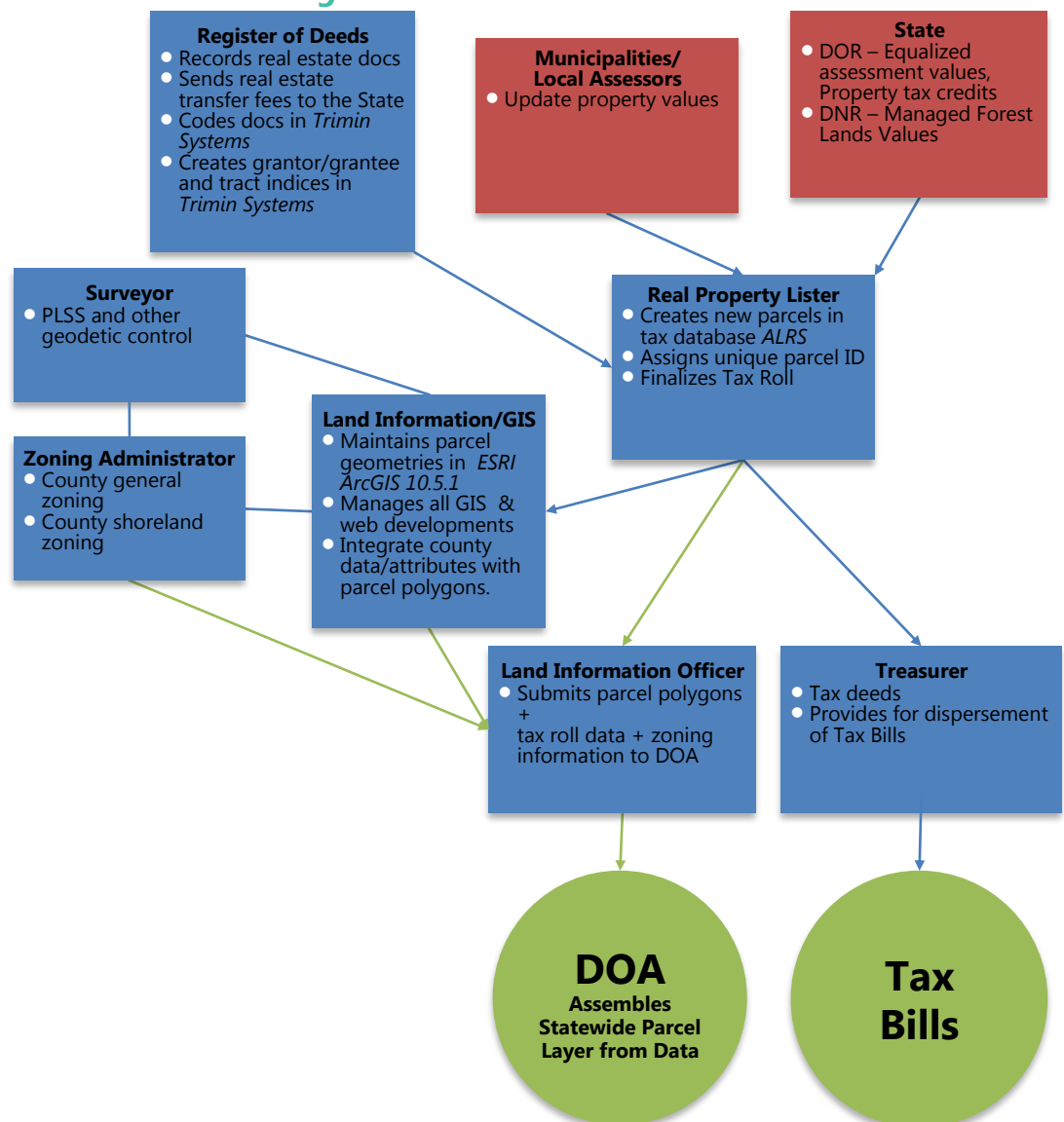
One integration requirement is listed under s. 16.967(7)(a)(1), Wis. Stats., which states that counties may apply for grants for:

- 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 Sauk County Land Information System, with focus on how data related to land features and data describing land rights are integrated and made publicly available.

Current Land Information System

County Parcel Data Workflow Diagram



Technology Architecture and Database Design

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

Hardware

- The GIS infrastructure uses utilizes 2 virtual servers, one for ArcGIS Server and the other for SQL Server.
- Register of Deeds utilizes Trimin System Light House for hardware, which incurs an annual maintenance of approximately \$2,700.
- Land Information/GIS uses a Cisco wiring services maintenance of \$3,500 annually.

Software

- Sauk County utilizes ArcGIS 10.5.1 for development of its GIS infrastructure. ESRI's Local Government Information Model(LGIM) is used for the base database design. Microsoft SQL [LRS/ArcGISDB] utilized for the relational database is \$15,600. The LGIM is the central repository for most GIS data. Annual maintenance costs approximately \$20,000.

Website Development/Hosting

- Redaction system integration costs \$4,000 annually. GOTOMYPC annual service is \$230. VMware annual service for our virtual serves is \$1600. VanGuard systems is \$4,000 and LandShark/,LandLink is \$2,600 annually for maintenance of Register of Deeds web hosting services.

Metadata and Data Dictionary Practices

Metadata Creation

- **Metadata creation and maintenance process:** Currently metadata is developed using ArcGIS 10.5.1 through ArcCatalog. We attempt to update the metadata as data is created or re-created. It is a work in progress. The software generates content consistent with FGDC Content Standard for Digital Geospatial Metadata.

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.
- **Metadata fields manually populated:** **

Metadata Policy

- **Metadata Policy:** **

Municipal Data Integration Process

- Municipal parcel polygon information for all Villages, along with the City of Wisconsin Dells, within Sauk County, is maintained by Land Information/GIS with integration of tax listing and assessment data from the ALRS. The County approached the City of Baraboo and City of Reedsburg about migrating their data to ESRI's Parcel Fabric. The county understood it was in a position to help both entities get into a standardized model and move forward with the latest technology in parcel management. The county agreed to migrate the data for them and train them on how to use and manage the Parcel Fabric. The project was a success and all entities worked well together. The City of Baraboo maintains their own parcel polygon information and we integrate their data and attributes into our system. The City of Reedsburg handed over parcel maintenance to the County a couple years ago, so they can focus on municipal initiatives.

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://www.co.sauk.wi.us/landinformation	http://datasaukgis.opendata.arcgis.com/	http://lrs.co.sauk.wi.us/AscentLandRecords/PropertyListing/RealEstateTaxParcel#/Search	https://landshark.co.sauk.wi.us/LandShark/login

Municipal Website Information

Municipal Website	Municipal Website URL
City of Reedsburg – Reedsburg GIS	https://maps.ags.ruekert-mielke.com/Html5Viewer/Index.html?viewer=Reedsburg

Data Sharing

Data Availability to Public

Data Sharing Policy

- Sauk County distributes its data free and without restrictions to the public. We set up an official policy in 2014 to no longer charge for any distributed data. Sauk County does charge nominal fees for printed materials and a pricing list can be found at <https://www.co.sauk.wi.us/landinformation/mapping-product-fees>.

Open Records Compliance

- Full compliance

Data Sharing Restrictions and Government-to-Government Data Sharing

Data Sharing Restrictions

- None

Government-to-Government Data Sharing

- Sauk County continues shares data among and with any & all-governmental agencies. Sauk County shares data with the State of Wisconsin (DOA & DOR), State Cartographers Office (SCO), NRCS, DNR, FEMA, other counties, along with any municipalities within and surrounding Sauk County.

Training and Education

- Sauk County has worked extensively to provide as much data as possible free and accessible to the public as well as private entities. The County continues to improve its abilities to provide land records and related data in the best most accessible way possible. The County works to educate the public, private, as well as county departmental employees on what is available through the County GIS and Mapping sites.

Educating and training individuals on the use of these sites and services is of the utmost importance. The county is continually inquiring for user feedback, along with providing insight into the systems, to provide for more user friendly applications. To develop these sites and applications, Sauk County has taken the approach of seeking continual training and enrichment of the GIS, Land Records & related staff in order to be able to provide better services and make improvements to the county systems. It is an investment, which has allowed Sauk County to be better positioned to assist other departments in providing essential improvements to the services they provide. It's a mutually beneficial methodology that helps Sauk County provide to its citizens better services, leveraging the funding and infrastructure that the County has been charged with maintaining and developing.

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.

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

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

Project Description/Goal

How Searchable Format Will Be Maintained

- Sauk County currently maintains its data in Searchable Format in an Enterprise Geodatabase
- Sauk County currently complies with the State's searchable format for Benchmarks 1 & 2.

Business Drivers

- The Project Plan to Maintain Searchable Format for Benchmarks 1 & 2 is a requirement for those counties who utilize Strategic Initiative funds for parcel/tax roll formatting to prepare the data submission to DOA.
- Maintaining Searchable Format is key in providing Sauk County's land information data through our county websites, applications and services.

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).

Responsible Parties

- Land Information/GIS Department & ALRS vendor Transcendent Technologies

Estimated Budget Information

- See table at the end of this chapter for project budget information.

Project Plan for Parcel Completion (Benchmark 3)

Project Title: Project Plan for Parcel Completion (Benchmark 3)

Project Description/Goal

Current status of parcel data

- **Current status: Maintenance mode**

Project Plan for PLSS (Benchmark 4)

Project Title: Project Plan for PLSS (Benchmark 4)

Project Description/Goal

Planned Approach

- Sauk County's plan is to acquire approximately 100 PLSS corners per year. These corners we do not have coordinates for, and many do not have a tie sheet (mainly Center of Sections). This project is ongoing and involves acquiring survey grade GPS coordinates for all corners countywide.

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:** 250-300
- **Number to have new coordinates established:** 250-300
- **Accuracy class for these new coordinates:** Survey Grade
- **Way in which these points will be integrated into the parcel fabric:** Sauk County will work on completing corners and surrounding corners, prior to adjusting and integrating them into the parcel fabric. Acquiring corners completely for an area (or sections) before incorporating parcels into it, for a complete framework.

Missing Corner Notes

- **Documentation for any missing corner data:** We may acquire corners that are missing, or in inaccessible areas, to establish a more complete PLSS framework. No plans to do so for this 3-year plan cycle.

County Boundary Collaboration

- Sauk County has worked to establish county boundary coordinates along the borders with adjacent counties in the past and will continue to do so. Typically Surveyors who do work along the borders send a tie sheet to both counties, but not in all cases, so coordination is key.

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.
- Having a complete and accurate PLSS provides the framework for parcel integration
- PLSS is key to providing accurate mapping, providing accurate information for development throughout the County

Objectives/Measure of Success

- The objective is to meet Benchmark 4 (Completion and Integration of PLSS) in the next 10 -15 years
- Contractor projects being awarded is relied upon having ample pre-qualified surveyors to do the work
- Contractors are extremely busy with private surveying work throughout the area
- Completion & Integration of PLSS is highly dependent upon successful award of Strategic Initiative Grants

Project Timeframes

Timeline – Project Plan for PLSS work 2019-2021		
Milestone	Duration	Date
Project start	–	January 1, 2019
Project complete		December 31, 2021
*Estimate		

Responsible Parties

- Contracted Surveyors 100%

Estimated Budget Information

- See table at the end of this chapter.

Project #1: Incorporate PLSS into Parcel Fabric

Project Description/Goal

- To improve parcel framework, by incorporating the PLSS corner information, modifying parcel polygons to accurately reflect location.
- **Land Info Spending Category:** PLSS

Business Drivers

- County parcel data lacks detailed location information, making it less useful
- County land information system needs to reflect specific PLSS corner information to incorporate parcel updates more easily into the County GIS.

Objectives/Measure of Success

- PLSS 100% complete & in maintenance mode
- Parcels displayed on GIS applications are tied to and hold accurate, current location information.
- New surveys & parcels mapped fit seamlessly into the GIS framework

Project Timeframes

Timeline – Project #1 Title		
Milestone	Duration	Date
Project #1 start	–	May 1, 2016
Projects will be coordinated to focus on PLSS incorporation	Will Vary	Continue as able
Project complete		Unknown at this time

Responsible Parties

- Land Information/GIS Staff 100%

Estimated Budget Information

- See table at the end of this chapter.

Project #2: Create Current Land Use layer

Project Description/Goal

- Create a Current Land Use layer that will be available and integrated into County GIS.
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Current Land Use is desired information, highly requested, that has not been available
- Along with Zoning information, will provide more information to interested parties

Objectives/Measure of Success

- Incorporate information into GIS website(s)
- Provide detailed information about land use in Sauk County

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS Staff (30%)
- Conservation, Planning & Zoning (CPZ) (70%)

Estimated Budget Information

- See table at the end of this chapter.

Project #3: Acquire Orthophotography 2020

Project Description/Goal

- Obtain Orthophotography through Wisconsin Regional Orthophotography Consortium(WROC), Spring 2020
- **Land Info Spending Category:** Orthoimagery

Business Drivers

- New 2020 orthophotos will assist in parcel mapping, conservation practices, development & more
- New Orthophotos posted through ArcGIS Community Maps Program, available on Tax Parcel iSite
- County Departments & Public benefit from access to updated orthophotos

Objectives/Measure of Success

- Ability to observe changes in development, land use & landscape
- Provide access to County Departments & Public with most up-to-date data, improving services & practices

Project Timeframes

Timeline – Project #3 Orthos		
Milestone	Duration	Date
Project #3 start	–	Jan 1, 2020
Contract with consultant-fly	8 months	Jan 1–Aug 31 2020
QC of images	2 months	Sept 30 –Nov 30, 2020
Provide to Community Maps Program	1 month	Dec 1, 2020
Project complete	–	Dec 31, 2020

Responsible Parties

- Contractor – Ayres Associates (80%)
- Land Information/GIS staff (15%)
- MIS (5%)

Estimated Budget Information

- See table at the end of this chapter.

Project #4: Acquire LiDAR 2020

Project Description/Goal

- Obtain LiDAR Contour data through Contractor (Ayres Associates) in Spring 2020
- **Land Info Spending Category:** LIDAR

Business Drivers

- New 2020 LiDAR data will assist in parcel mapping, conservation practices, development & more
- County Departments & Public benefit from access to updated LiDAR data
- Updated data provides for improvements to the applications and practices through FSA, FEMA, DNR & others
- Continued episodes of extreme flooding throughout various areas shows the need for analysis and better planning & development strategies

Objectives/Measure of Success

- Ability to observe changes in development, land use & landscape
- Provide access to County Departments & Public with most up-to-date data, improving services & practices

Project Timeframes

Timeline – Project #4 Orthos		
Milestone	Duration	Date
Project #4 start	–	Jan 1, 2020
Contract with consultant-fly	8 months	Jan 1–Aug 31 2020
QC of data	2 -3 months	Sept 30 –Dec 31, 2020
Publish to GIS applications/services	1 -2 months	Jan 1, 2021
Project complete	–	March 31, 2021

Responsible Parties

- Contractor – Ayres Associates/Quantum (80%)

- Land Information/GIS (15%)
- Management Information Systems (MIS) (5%)

Estimated Budget Information

- See table at the end of this chapter.

Project #5: Re-Survey books – data on GIS

Project Description/Goal

- Take scanned Re-Survey books, incorporate data into & make available on GIS
- **Land Info Spending Category:** Other Parcel Work

Business Drivers

- Looking at the data is difficult from index to data pages. Need to improve searching this data
- Data provides a wealth of historic information to those doing research
- Need this data accessible through online GIS services

Objectives/Measure of Success

- Re-Survey images and information accessible through the online services of the County GIS
- Surveyors use it regularly

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS 90+%)
- County Surveyor (5-10%)

Estimated Budget Information

- See table at the end of this chapter.

Project #6: Sauk County Abstract Title records to ROD indexing

Project Description/Goal

- Migrate data scanned from Sauk County Abstract Title (SCAT) records to ROD indexing system. Sauk Co obtained all title index data from SCAT.
- **Land Info Spending Category:** ROD Indexing (Other Parcel Work)

Business Drivers

- The SCAT records provide a wealth of historic information related to property records in Sauk County
- This data is not very useful alone, but in combination with ROD records or linked to ROD indexing (LandShark), provides a great resource

Objectives/Measure of Success

- Having access to this valuable historic information will enhance research of County ROD records
- SCAT data records will be made available for online access
- Link SCAT records & ROD indexing records, providing ability to view them in same application. This is a desire, may not be possible.

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (15%)
- Register of Deeds (5%)
- Management Information Systems (MIS)(20%)
- Contractor (Trimin/Transcendent) (60%)

Estimated Budget Information

- See table at the end of this chapter.

Project #7: Floodplain to Permitting System – Land Use Permits

Project Description/Goal

- Link structures in the Floodplain to Permitting System for use with Land Use Permits
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Data related to structures in the Floodplain is missing from Permitting System
- Linking structure data would enhance the Permitting System

Objectives/Measure of Success

- Structures within the Floodplain would be directly linked to Permitting System
- Access to this information would allow the County to know exactly where structures are located within Floodplain

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (85%)
- Conservation, Planning & Zoning (15%)

Estimated Budget Information

- See table at the end of this chapter.

Project #8: Georeference 1938 Wisconsin Land Economic Inventory

Project Description/Goal

- Georeference 1938 Wisconsin Land Economic Inventory, providing significant historic data
- **Land Info Spending Category:** Digital Parcel Mapping; Other Parcel Work

Business Drivers

- Access to this map and georeferencing into County GIS data provides historic reference.

Objectives/Measure of Success

- Ability to view this map in conjunction with other County GIS data through online applications

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (100%)

Estimated Budget Information

- See table at the end of this chapter.

Project #9: Inventory of Parks within the GIS

Project Description/Goal

- Create a complete inventory for Sauk County Parks data, and provide on County GIS applications
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Parks information is not complete in County GIS
- An inventory of Sauk County Parks was completed, need to enhance this

Objectives/Measure of Success

- Ability to access Parks information on County GIS applications
- Availability to asset information within the Parks
- This is an ongoing project

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (85%)
- Parks (15%)

Estimated Budget Information

- See table at the end of this chapter.

Project #10: Inventory of Trails within the GIS

Project Description/Goal

- Create a complete inventory for Sauk County Trails data, and provide on County GIS applications
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Trails information is lacking in County GIS

Objectives/Measure of Success

- Ability to access Trails information on County GIS applications
- Trail information will include County, township, municipal as well as State Trail information
- This is an ongoing project

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (85%)
- Parks (15%)

Estimated Budget Information

- See table at the end of this chapter.

Project #11: Manure Pit Inventory

Project Description/Goal

- Create an inventory for Sauk County Manure Pit data, and provide on County GIS applications
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Manure Pit inventory is needed for monitoring and evaluating manure storage practices
- Manure Pit inventory is needed for implementation of Sauk County Chapter 26 Agricultural Performance Standards and Manure Management Ordinance.

Objectives/Measure of Success

- Ability to easily access Manure Pit information on County GIS applications
- Currently have a good idea where manure pits are located, but this will provide better location of where ALL manure pits are, and provide better cataloguing of details for each.

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (50%)
- Conservation, Planning & Zoning (50%)

Estimated Budget Information

- See table at the end of this chapter.

Project #12: Quarry Inventory. Link to Permitting System

Project Description/Goal

- Inventory, link to CPZ Permitting System, provide on GIS Sauk County Quarry data
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Quarry data is very important and essential for evaluating practices and development in Sauk County
- Providing an inventory of Quarry data benefits the permitting process
- Currently have no information – need GPS quarry data
- Need an application to that provides clear picture of where all quarries are, verify amount quarry is open part versus what is reclaimed
- Quarry data needs to be available on County GIS applications, for internal & external use

Objectives/Measure of Success

- Ability to access a Quarry Inventory on County GIS applications
- Quarry Inventory data is directly linked to Permitting System & accessible
- Quarry application will provide essential data regarding quarry locations, amount open and amount reclaimed, along with related information

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (50%)
- Conservation, Planning & Zoning (50%)

Estimated Budget Information

- See table at the end of this chapter.

Project #13: Landfill Inventory. Link to Permitting System

Project Description/Goal

- Inventory, link to CPZ Permitting System, provide on GIS Sauk County Quarry data
- **Land Info Spending Category:** Digital Parcel Mapping; Other Parcel Work

Business Drivers

- Landfill data is essential for evaluating practices and development in Sauk County
- Providing an inventory of Landfill data benefits the permitting process
- Landfill data needs to be available on County GIS applications, for internal & external use

Objectives/Measure of Success

- Ability to access a Landfill Inventory on County GIS applications
- Landfill Inventory data is directly linked to Permitting System & accessible

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (50%)
- Conservation, Planning & Zoning (50%)

Estimated Budget Information

- See table at the end of this chapter.

Project #14: Online focused application for Surveys

Project Description/Goal

- Create a focused online application for Surveys
- **Land Info Spending Category:** Digital Parcel Mapping; Other Parcel Work

Business Drivers

- A specific application for acquiring Survey information has been requested
- Desire an application where all Survey related information is located

Objectives/Measure of Success

- A focused application would provide one location (website application) for all Survey related data
- This project is in process

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (95%)
- County Surveyor (5%)

Estimated Budget Information

- See table at the end of this chapter.

Project #15: Building Footprints - attribute

Project Description/Goal

- Link address point to building footprints, add secondary points for driveway entrances, and attribute building footprints
- Detailed information related to hotels, campgrounds, apartment complexes, trailer parks, condos, business complexes and similar locations, having specific data providing better location
- **Land Info Spending Category:** Other Parcel Work; Address Points

Business Drivers

- Accurate data related to addresses, location of buildings and driveway entrances in not easily available
- Emergency Services would benefit from this data being integrated into their applications & tools
- Need detailed information related to building (ie...units, floors, apartment, suite #'s, etc..)

Objectives/Measure of Success

- Address and building footprint data will be seamlessly available through County GIS applications
- Access to information will improve location analysis related to county activities
- Provide more accurate data, allowing for quicker response for Emergency Services

Project Timeframes

- This is a current project
- Completion is unknown at this time

Responsible Parties

- Land Information/GIS staff (100%)

Estimated Budget Information

- See table at the end of this chapter.

Project #16: Farmland Conservation Program/Compliance Reports

Project Description/Goal

- Support initiatives related to Farmland Conservation/Compliance Reports
- **Land Info Spending Category:** Digital Parcel Mapping; Other Parcel Work

Business Drivers

- Access to this data is limited
- Need for this data to be accessible through other applications

Objectives/Measure of Success

- Farmland Conservation/Compliance Report data available through county applications

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (85%)
- Conservation, Planning & Zoning (15%)

Estimated Budget Information

- See table at the end of this chapter.

Project #17: Address Ranges for road centerlines

Project Description/Goal

- Capture Actual Address Ranges for road centerlines
- **Land Info Spending Category:** Address Points

Business Drivers

- Accurate Address Ranges are not available within GIS data at this time
- Access to this data through County applications would enhance County GIS applications

Objectives/Measure of Success

- Address Ranges would be available through County GIS applications
- Provide essential data for enhancement of Emergency Service applications

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (95%)
- Treasurer/Real Property (5%)

Estimated Budget Information

- See table at the end of this chapter.

Project #18: Cellular Tower Inventory

Project Description/Goal

- Create a GIS Cellular Tower Inventory.
- **Land Info Spending Category:** Digital Parcel Mapping; Other Parcel Work

Business Drivers

- Unknown where all towers are located
- Data related to towers is limited, desire to know where these are, where the towers are lacking
- Economic Development needs these towers to provide infrastructure for business development
- Having Cellular Tower Inventory would enhance County GIS applications

Objectives/Measure of Success

- Ability to locate Cellular towers through County GIS applications
- Data related to towers would be accessible through County GIS applications

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS staff (100%)

Estimated Budget Information

- See table at the end of this chapter.

Project #19: Link Parcel Data to county assessor data inventories

Project Description/Goal

- Link Parcel Data to various assessor data inventories throughout the County.
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Each Municipality has their own contracted assessor
- Parcel Data does not include assessor data inventories through County GIS applications

Objectives/Measure of Success

- Parcel Data will be linked to all assessor inventories through County GIS applications

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS Staff (70%)
- Treasurer/Real Property (15%)
- Municipality Assessor's (Private-Contracted)(15%)

Estimated Budget Information

- See table at the end of this chapter.

Project #20: Highway & ROW plan inventory, incorporating State info

Project Description/Goal

- Enhance Highway & ROW plan inventory by incorporating State information
- **Land Info Spending Category:** Digital Parcel Mapping; Other Parcel Work

Business Drivers

- Limited information regarding Highway & ROW plan through County systems
- Increased need for access to data related to Highway & ROW plans
- State information would enhance an inventory and provide important data to County Systems

Objectives/Measure of Success

- Highway & ROW plan inventories would be accessible through County GIS applications
- State information related to Highway & ROW plan inventories accessible through County GIS applications

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS Staff (85%)
- Highway (+/- 15%)

Estimated Budget Information

- See table at the end of this chapter.

Project #21: Link GIS features to LandShark

Project Description/Goal

- Link GIS features to LandShark, incorporating parcel #'s to documents. Parcel numbers not on deed documents. Functionality to add parcel numbers is within ROD system, not part of process at this time.
- **Land Info Spending Category:** Digital Parcel Mapping; Website Development/Hosting Services

Business Drivers

- LandShark has limited information related to parcel & GIS feature information.
- More information is needed related to the parcel in LandShark to enhance research and provide link

Objectives/Measure of Success

- LandShark will provide through links more detailed information related to parcel & GIS feature information
- Researching parcels more seamlessly, ability to find more information in one location
- Parcel Numbers will be added at the time of recording documents

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (5%)
- Register of Deeds (15%)
- Contractor (Trimin-LandShark) (80%)

Estimated Budget Information

- See table at the end of this chapter.

Project #22: Public credit card online access

Project Description/Goal

- Provide ability for the public to have access to an online credit card payment
- **Land Info Spending Category:** Software; Hardware; Website Development/Hosting Services

Business Drivers

- Payment for county records related to CSM documents is not available online.
- Desire to have seamless access to records and payment for copies

Objectives/Measure of Success

- Customers can make payments easily through an online secure payment system
- Desire is to have a seamless portal directly connected to ROD system online to easily pay for copies

Project Timeframes

- Unknown at this time

Responsible Parties

- Management Information Systems (MIS)(10%)
- Contractor (PayGov (?)) (90%)

Estimated Budget Information

- See table at the end of this chapter.

Project #23: Incorporate CPZ System information into GIS

Project Description/Goal

- Incorporate Conservation, Planning & Zoning (CPZ) information into GIS.
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- CPZ data is not easily or readily available through County GIS applications
- Need a more seamless way to navigate data in PZ Systems and bring to GIS
- Persons needing information have to go to a couple site/applications to get detailed information

Objectives/Measure of Success

- Provide an application or service that incorporates PZ Systems with GIS data
- Data will be more easily accessible, allowing staff to work with data better and provide great service

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS Staff
- Conservation, Planning & Zoning (CPZ)

Estimated Budget Information

See table at the end of this chapter.

Completed Projects

Since the last Land Information plan (2016-2018), Sauk County has completed numerous projects. These projects have been completed with the work from multiple departments, working together to bring land information and GIS data and services to the public. Our main goal is to provide an integrated seamless system by which county staff, businesses and the public can get information related to parcels, tax/real property, planning & zoning, survey, deeds & documents and a host of other related information.

Below are some of the projects that have been completed since the last Land Records plan:

- Complete V2 – V4 Statewide Parcel Map Database Project initiative.
- Submission to State V2- V4 Statewide Parcel Map Database Project initiative data.
- Scan Re-Survey record books, and made available on FTP site.
- Plat of Surveys, scanning & placing text on GIS, maintaining going forward
- Re-evaluated section corner remonumentation data, reprioritized acquiring coordinates.
- Updated Land Information/GIS website landing page
- Created on application for
- Capture all Easements into GIS
- Create program/application to Collect Site Address points within Cities and Villages.
- Complete conversion of last ROD volumes, years 1840-1895.
- Completed scanning of Grantor/Grantee records to electronic format back to 1840.
- Create an complete inventory of Parks
- Create an Emergency Response Application

Estimated Budget Information (All Projects)

Estimated Budget Information

Project Title	Item	Unit Cost/Cost	Land Info Plan Citations	Project Total
			Page # or section ref.	
1) Incorporate PLSS into Parcel Fabric	GIS Staff	Unknown at this time	Sec 4, pg 28	
2) Create Current Land Use Layer	CPZ staff GIS staff	Unknown at this time	Sec 4, pg 29	
3) Acquire Orthophotography 2020	Ayres Associates & Quantum	\$64,448	Sec 4, pg 29	64,448
	GIS/MIS staff	Unknown at this time		
4) Acquire LiDAR 2020	Ayres Associates & Quantum	\$96,412.50	Sec 4, pg 30	96,412.50
Possible Addtl LiDAR enhancements	Ayres Associates & Quantum	\$29,995	Sec 4, pg 30	[\$29,995]
	GIS/MIS staff	Unknown at this time		
5) Re-Survey books – data on GIS	GIS staff, Co Surveyor	Unknown at this time	Sec 4, pg 31	
6) SCAT records to ROD indexing	Contractor, GIS/MIS staff, ROD	Unknown at this time	Sec 4, pg 31	
7) Floodplain to Permitting	GIS staff, CPZ staff	Unknown at this time	Sec 4, pg 32	
8) Georeference 1938 WI LEI Map	GIS staff	Unknown at this time	Sec 4, pg 32	
9) Inventory of Parks	GIS staff, Parks staff	Unknown at this time	Sec 4, pg 32	
10) Inventory of Trails	GIS staff, Parks staff	Unknown at this time	Sec 4, pg 33	
11) Manure Pit Inventory	GIS staff, CPZ staff	Unknown at this time	Sec 4, pg 33	
12) Quarry Inventory	GIS staff, CPZ staff	Unknown at this time	Sec 4, pg 33	
13) Landfill Inventory	GIS staff, CPZ staff	Unknown at this time	Sec 4, pg 34	
14) Focused Application for Surveys	GIS staff, Co Surveyor	Unknown at this time	Sec 4, pg 34	
15) Building footprints - attribute	GIS staff	Unknown at this time	Sec 4, pg 35	
16) Farmland Conservation Program	GIS staff, CPZ staff	Unknown at this time	Sec 4, pg 35	
17) Address Ranges–road centerline	GIS staff, Treasurer/Real Property	Unknown at this time	Sec 4, pg 36	
18) Cellular Tower Inventory	GIS staff	Unknown at this time	Sec 4, pg 36	
19) Link Assessor data inventories	GIS staff, Treasurer/Real Property, Assessors	Unknown at this time	Sec 4, pg 36	
20) Highway & ROW plan inventory	GIS staff, Highway	Unknown at this time	Sec 4, pg 37	
21) Link GIS features to LandShark	Contractor, GIS staff, ROD	Unknown at this time	Sec 4, pg 37	
22) Public credit card online access	Contractor, MIS	Unknown at this time	Sec 4, pg 38	
23) Incorporate CPZ system to GIS	GIS staff, CPZ	Unknown at this time	Sec 4, pg 38	
GRAND TOTAL				\$160,860.50

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

Appendix A
Land Information Council September 27, 2018
Meeting Minutes

Committee Members Present: Gavin, Felton, Bailey, Brown, Geoghegan, Pate, Wenzel, Dederich
Committee Members Absent: Hameau, Jelinek, Templin,

Gavin called meeting to order @ 10:08 am

Motion by Pate, seconded by Bailey to adopt agenda.

Motion by Pate, seconded by Bailey to approve minutes from May 24, 2018 meeting.

Public Comment: none

Communications: none.

Review of 2018 Projects and Budget Status: Pate handed out the Year to Date Budget Report. Currently we are at 38% of Capital Outlay expenditures. Should hit our budget numbers by the end of the year. We are about 1000 documents down from 2017. There is still about two thirds of the Remonumentation projects to be paid out, along with a Register of Deeds project for OCR software. Year End Balance is looking to be roughly \$450,000.

2019 Land Records Modernization Budget - Discussion 2019 Goals & Priorities: Steve spoke on the Goals & Priorities highlighting the items. These items were discussed, and agreed upon at the May 24, 2018 meeting. The main change to LRM budget is allocating funds for the scanning of historic tax rolls for the Treasurer's Department.

Discussion of Land Records Activities & Updates by Department:

- a. **Approval 2019-2021 Draft Land Information Plan:** Felton discussed & highlighted the main pieces of the plan, noting some details related to specific projects. Discussion centered on the projects. No specific changes to the plan were made.
 - i. Motion by Bailey, Second by Pate to approve the 2019-2021 Land Information Plan complete draft, and forwarding it on to DOA for review. Motion carried
- b. **2020 Orthophotography flight information:** Discussed the project, details on the products.
- c. **2020 3DEP LiDAR project information:** Discussed the project. Extended discussion on details related to the products in base flight and enhancements. Discussed and compared the details of products from 2011 CDBG FEMA flight, to the upcoming 2020 flight. General feel was that the base deliverables were less than hoped. To get the same products as we got in 2011, the county will have to buy up with enhancements. Final decision on the purchasing the enhancements has not been made, likely will be made part of the 2020 Budget discussions in 2019.

Suveyor: Dederich reported on the status of the SIG Remonumentation project, noting that once there is leaf-off the rest of the corner acquisitions will take place. Felton noted that once finalization of those corner acquisitions, along with tie sheet submittal and final invoicing occurs, then the Strategic Initiative Grant can be finalized. Once the grant is complete, payment for the 2nd half (\$25,000) will be sent to the County.

Agenda items for next meeting: Review of 2018 Budget Balance; Discussion of Land Records Activities & Updates by Department; Final 2019 Land Records Modernization Budget.

Next meeting: Tentatively set for Tuesday January 22, 2019 @ 10am, Room 213 WSB. Additional 2019 dates: Thurs. May 23, 2019; Thurs. Sept. 26, 2019 (pending 2020 Finance Budget schedule).

Adjournment: Motion by Pate, seconded by Bailey to adjourn @ 11:10am.

Drafted & Submitted by, Kelly K. Felton, Secretary