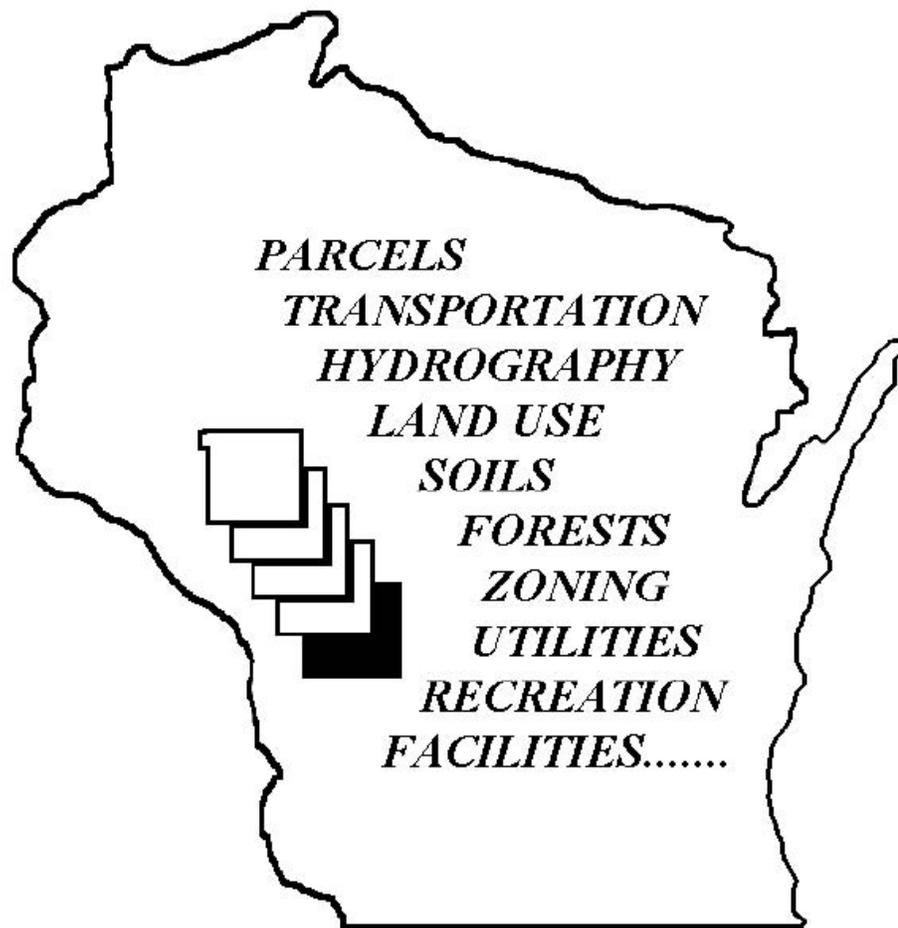


Monroe County Land Information Plan



2016-2018

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EXECUTIVE SUMMARY

About this Document. This document is a land information plan for Monroe County prepared by the land information officer (LIO) and the land information council. By Wisconsin statute, “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 2015 Monroe County received \$42,912 in WLIP grants, based on FY 2014 (State of Wisconsin Fiscal Year July 2013-June 2014) retained fees and retained a total of \$58,440 in local register of deeds document recording fees for land information during FY 2015 (July 2014-June 2015). Beginning in 2016, WLIP Strategic Initiative grants are projected to increase the county land information budget by \$50k per year.

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 Monroe 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 Monroe County land information system integrates and enables efficient access to information that describes the physical characteristics of land, statistical tabulation and analysis of tax and assessment data, as well as depiction of the property boundaries and rights attributable to landowners.

Mission of the Land Information Office. The Land Information Office will provide efficient and high quality services to its residents and county departments by maintaining land records in an efficient manner, adopting standards to streamline the use of GIS data across departments, and continue to provide services such as our geographic information web server.

Land Information Office Projects. To realize this mission, in the next three years, the county land information office will mainly focus on the following broad projects aside from general and regular maintenance of data:

1. Adoption of the State of Wisconsin Searchable Format with complete “Act 20” attributes and standardized field names and domains.
2. Upgrade of positional accuracy of address point data.
3. 100% PLSS remonumentation with survey grade GPS coordinates.
4. Update the PLSS layers for positional accuracy.

The remainder of this document provides more details on Monroe County and the WLIP, summarizes current and future projects, and reviews the county’s status in completion and maintenance of the WLIP 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
- Meet a June 30, 2017 deadline to post certain types of parcel information online

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 proposed that funding be made available to counties in the form of Strategic Initiative grants to be prioritized for the purposes of parcel dataset improvement. For Strategic Initiative grant eligibility, counties will be 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—are determined through a participatory planning process and will be detailed in future WLIP grant applications.

County land information plans were initially updated every five years. However, because of Act 20, counties must update and submit their plans to DOA for approval every three years. Thus, the minimum planning horizon for these documents is three years. The plan may incorporate a planning horizon that is longer if the needs and priorities of the participants warrant.

The first post-Act 20 required update deadline for draft county land information plans is December 29, 2015. Final plans are due March 31, 2016.

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 16.967(1)(b)*

County Land Information System History and Context

The Wisconsin Land Information Program was created in 1989, through Act 31. Pursuant to this, the Monroe County Board of Supervisors established a Land Information Office on June 9, 1990. Lorraine Mattheisen, Real Property Lister, was designated as Monroe County's Contact person.

The Monroe County Administrative Committee, originally chaired by David Sullivan and later by Loren Pierce, with additional members including Nalani Bever, Richard Campfield and Harv Simmons formed a county staff committee to review planning options. This staff committee was chaired and directed by County Board Supervisor Harvey Jernander. At Harvey's Direction, and with the assistance of Bentley Lein, UWEX resource agent, the staff committee reviewed and analyzed planning options. Early in the process a commitment was made to drafting Monroe County's Modernization Plan in-house. The staff committee was composed as follows:

- Harvey Jernander (Chair) County Board Supervisor
- Norm Culpitt Administrator of Sanitation, Forestry and Zoning
- Vicky Jo Dutton Register of Deeds
- Annette Erickson Treasurer
- Al Hoff County Conservationist
- Bentley Lein UW Extension Resource Agent
- Lorraine Mattheisen Real Property Lister
- Mark Mulder ASCS
- Al Roof Solid Waste Manager
- Gary Sime County Surveyor
- Norbert Smith Highway Commissioner
- Gordon Stelter Emergency Management Coordinator

Monroe County's first Land Records Modernization Plan was adopted on August 5th 1992.

Monroe County adopted an updated Land Records Modernization Plan for 1999-2000 on June 2, 1999. Doug Avoles the Land Information Officer prepared the updated plan, with the assistance of the following staff:

- Al Hoff County Conservationist
- Mike MacLaren Emergency Management/911 Coordinator
- Lorraine Mattheisen Real Property Lister
- Vicky Dutton Register of Deeds
- Annette Erickson Treasurer
- Jack Dittmar County Highway Commissioner
- Bentley Lein UW Extension Agricultural Agent
- Gary Sime County Surveyor
- Wes Bangsberg Zoning, Sanitation & Forestry Administrator
- Dale Trowbridge County Sheriff

Monroe County adopted an updated Land Records Modernization Plan for 2005-2010 on April 6, 2005. Mathew Eddy, the Land Information Officer, updated the plan with the assistance of the following staff:

- Al Hoff County Conservationist
- John Mehtala Information Systems Director
- Cindy Struve Emergency Management
- John Burke Register of Deeds
- Annette Erickson Treasurer
- Jack Dittmar County Highway Commissioner
- Amy Schanhofer UW Extension Agricultural Agent
- Gary Sime County Surveyor
- Wes Bangsberg Zoning, Sanitation & Forestry Administrator

The county LIO, the Land Information Council, and others as listed prepared this plan below.

County Land Information Council and Plan Workgroup				
Name	Title	Affiliation	Email	Phone
*Jeremiah Erickson	Land Information Officer	Monroe County Treasurer's Office	jeremiah.erickson@co.monroe.wi.us	608-269-8698
*Tim Dahlen	Real Property Lister	Monroe County Treasurer's Office	tim.dahlen@co.monroe.wi.us	608-269-8623
*Deb Brandt	Register of Deeds	Monroe County Register of Deeds	deb.brandt@co.monroe.wi.us	608-269-8714
*Annette Erickson	Treasurer	Monroe County Treasurer's Office	annette.erickson@co.monroe.wi.us	608-269-8710
*Gene Treu	County Board Member	Monroe County Board	District_3@me.com	
*Cindy Zinke	Realtor	ReMax Hometown	cindyzinke@cindyzinke.com	608-373-7443
*Randy Williams	Dispatch Director-Public Safety Officer	Dispatch Director	randy.williams@co.monroe.wi.us	608-269-8982
*Gary Dechant	County Surveyor	Monroe County Surveyor	gary.dechant@co.monroe.wi.us	608-269-8623
*John Mehtala	Director Information Systems	Monroe County Information Systems	jmehtala@co.monroe.wi.us	608-269-8696
*Al Hoff	Retired	Former Monroe County Land Conservationist	alhoff33@gmail.com	

* 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 by users 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, priority is placed 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.

The list of WLIP’s Foundational Elements has evolved with each update of the county land information plan instructions. They are a guideline of what counties need to address in their plans *at a minimum*. As the list of layers in this document is not exhaustive, counties are welcome to insert additional layers for geospatial data categories stewarded by the county or municipalities that are of importance to local business needs.

FOUNDATIONAL ELEMENTS

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

Foundational Element Subheadings

For each layer listed the plan will address: 1) Layer Status, 2) Custodian, 3) Maintenance, and 4) Standards.

PLSS

Public Land Survey System Monuments

Layer Status

- For the PLSS Foundational Element, the table below documents Layer Status

PLSS Layer Status	
Name	Status/Comments
Total number of PLSS corners (section, ¼, meander) set in original government survey	2873
Number and percent of PLSS corners that have been remonumented	2722 corners or less, 94.7% or less, the total number of remonumented corners and newly monumented corners including some 1/8 and 1/16 corners and or meander corners that we have tie sheets and monuments for is 2826. My 2722 may include a few 1/8 corners I had to count/estimate town by town.
Number and percent of remonumented PLSS corners with survey grade coordinates (see below for definition)	454 corners, 15.8%
Number and percentage of survey grade PLSS corners integrated into county digital parcel layer	454 corners, 15.8%
Number and percentage of non-survey grade PLSS corners integrated into county digital parcel layer	1782 corners, 60.1%
Percentage of PLSS corners that have digital tie sheets (whether or not they have corresponding coordinate values)	2826
Digital tie sheets available online.	Yes

Approximate number of PLSS corners believed to physically exist based on filed tie-sheets or surveys, but do not have coordinate values	590
Approximate number of PLSS corners believed to be lost or obliterated	1 meander corner is definitely in the Black River otherwise I would not be surprised if some that fall within Fort McCoy are lost and obliterated but I have no true estimate.
Total number of PLSS corners along each bordering county	59 bordering Vernon County (one also shared with La Crosse and one also with Juneau) 60 bordering Juneau County (one also shared with Vernon County and one also with Jackson County) 69 bordering Jackson County (one also shared with Juneau County and one also with Vernon County) 55 bordering La Crosse County (one also shared with Vernon County and one also with Jackson County)
Number and percent of PLSS corners remonumented along each county boundary	59 bordering Vernon County, 100% remonumented 56 bordering Juneau County, 93% remonumented 67 bordering Jackson County, 97.1% remonumented 55 bordering La Crosse County, 100% remonumented
Number and percent of remonumented PLSS corners along each county boundary with survey grade coordinates	52 bordering Vernon County, 88.1% survey grade 1 bordering Juneau County, 1.6% survey grade 17 bordering Jackson County, 24.6% survey grade 42 bordering La Crosse County, 76.3% survey grade
Does your county collaborate with or plan to collaborate with neighboring counties for PLSS updates on shared county borders?	Yes

Custodian

- Real Property Coordinator (Will become GIS Specialist in 2016)

Maintenance

- When new section corners are introduced with coordinates.

Standards

- Statutory Standards for PLSS Corner Remonumentation
s. 59.74, Wis. Stats. Perpetuation of section corners, landmarks.
s. 60.84, Wis. Stats. Monuments.
ch. A-E 7.08, Wis. Admin. Code, U.S. public land survey monument record.
ch. A-E 7.06, Wis. Admin. Code, Measurements.
s. 236.15, Wis. Stats. Surveying requirements.
- Wisconsin County Surveyor's Association **survey grade** standard:
Coordinates collected under the direction of a Professional Land Surveyor, in a coordinate system allowed by s. 236.18(2), and obtained by means, methods and equipment capable of repeatable 2 centimeter or better precision.

PLSS 1st Division

Layer Status

- 100% Complete

Custodian

- Real Property Coordinator (Will become GIS Specialist in 2016)

Maintenance

- This layer has been unmaintained on a consistent basis for nearly a decade. This layer is in definite need of an overhaul.

Standards

- This file appears to have been initially based on landnet and modified to match section corners as they were available and as time allowed. Standard practice would be to adjust our PLSS layers to match our PLSS Section Corners that are referenced to the Monroe County Coordinate System as defined in the *Wisconsin Coordinate Reference Systems Handbook Second Edition*. Standards will be sought out when maintenance on this layer is to recommence.

PLSS 2nd Division

Layer Status

- 100% Complete

Custodian

- Real Property Coordinator (Will become GIS Specialist in 2016)

Maintenance

- This layer has been unmaintained on a consistent basis for nearly a decade. This layer is in definite need of an overhaul.

Standards

- This file appears to have been initially based on landnet and modified to match section corners as they were available and as time allowed. Standard practice would be to adjust our PLSS layers to match our PLSS Section Corners that are referenced to the Monroe County Coordinate System as defined in the *Wisconsin Coordinate Reference Systems Handbook Second Edition* and break down the sections based on recorded surveys performed by Professional Land Surveyors. Where survey records are not available to break down sections following accepted practices followed by Professional Land Surveyors. NSDI FGDC Standards will be sought out when maintenance on this layer is to recommence.

PLSS QTR Division

Layer Status

- 100% Complete

Custodian

- Real Property Coordinator (Will become GIS Specialist in 2016)

Maintenance

- This layer has been unmaintained on a consistent basis for nearly a decade. This layer is perhaps not necessary and will likely be eliminated going forward as according to the *Standardized PLSS Data Set Users Reference Materials* this level of division is typically normalized and integrated with the PLSS 2nd Division.

Standards

- Standard practice would be to adjust our PLSS layers to match our PLSS Section Corners, which are referenced to the Monroe County Coordinate System as defined in the *Wisconsin Coordinate Reference Systems Handbook Second Edition* and break down the sections based on recorded surveys performed by Professional Land Surveyors. Where survey records are not available to break down sections following accepted practices followed by Professional Land Surveyors. NSDI FGDC Standards will be sought out when maintenance on this layer is to recommence.

PLSS Township Division

Layer Status

- 100% Complete

Custodian

- Real Property Coordinator (Will become GIS Specialist in 2016)

Maintenance

- This layer has been unmaintained on a consistent basis for about the last three years. This layer is in definite need of an overhaul.

Standards

- NSDI FGDC Standards as well as any other State of Wisconsin standards will be honored when maintenance on this layer is to recommence.

Geodetic Control

Layer Status

- 100% Complete

Custodian

- Real Property Coordinator (Will become GIS Specialist in 2016)

Maintenance

- Unknown has not been maintained in a decade

Standards

- Monroe County completed densification from the WHPGN under the guidance of the Jackson County Surveyor. For the primary (1 ppm) and secondary (2 ppm) level of horizontal densification, Monroe County has adhered to the acquisition and analysis standards as specified in the WLIB document: *STANDARDS, SPECIFICATIONS, AND GUIDELINES* to support Densification of the Wisconsin High Accuracy Reference Network (HARN) Using Global Position System (GPS) Technology (June 1995).

For the tertiary (4 ppm) level, Monroe County is also adhering to these standards except for the following:

- No pencil rubbings of monument caps were taken during data acquisition sessions
- No photographs were taken during data acquisition sessions
- No meteorological observation were taken during data acquisition

Horizontal Coordinates for each station are available in both the Monroe County Coordinate System and latitude/longitude values.

Parcel Mapping

Parcel Geometries

Layer Status

- Layer is a shapefile named TaxParcel in our geodatabase
- Layer is 100% complete
- 100% of the county's parcels are available in a commonly-used GIS format
- Projected Coordinate System: NAD 1983 HARN WISCRS Monroe County Feet
- Geographic Coordinate System: North American 1983 HARN
- Datum: North American 1983 HARN
- Projection: Lambert Conformal Conic
- Our parcel layer is not currently integrated the Tax and Assessment Data from our assessment or tax roll
- We plan to implement a State of Wisconsin Statewide Parcel Map Project friendly model based on Appendix M of the Version 1 Interim Report on the Statewide Parcel Map Database Project.

Custodian

- Real Property Coordinator in Treasurer's Office and GIS Specialist in Zoning Office.

Maintenance

- Our tax parcel layer has been updated continuously using ESRI software since completion and annually upon the beginning of a new year of tax parcel maintenance. A version is preserved to represent the tax parcels on January 1 in order to match the tax and assessment cycle.

Standards and Documentation

- Monroe County has metadata for our Tax Parcel layer

Tax Parcel Fields	
Name	Definition
OBJECTID	Assigned by ESRI Software
TxParID	Tax Parcel Identification Number: "computer number" in GCS software
TxParType	Tax Parcel Type: This attribute is no longer maintained on a regular basis and was never 100% complete. It was supposed to indicate the status or type of parcel. Domain options included Normal, Condo, Non-Conforming, Gap, Overlap, Not in Roll, Historical, Disputed, Erroneous.

TxParPositionStatus	Tax parcel Position Status: This attribute is no longer maintained on a regular basis and was never 100% complete. It was supposed to indicate the positional status of the parcel. Domain options were GPS & Survey, GPS, Survey and Non-Survey. The intent was to determine which parcels were more likely to be adjusted in the future.
TxParSource	Tax Parcel Source: This attribute is developed during tax parcel maintenance but is not maintained on a regular basis and was never 100% complete. Level of completion is unknown. It was developed as a Free Text field for referencing the basis or source for the parcel e.g. document number
TxParSourceDate	Tax Parcel Source Date: This attribute is developed during tax parcel maintenance but is not maintained on a regular basis and was never 100% complete. Level of completion is unknown. It was developed to define the date of the source used for the basis of the parcel.
TxParDiscrepancyID	Tax Parcel Discrepancy ID: Allowed for discrepancies to be identified but to my knowledge was never implemented
TaxParDiscrNote	Tax Parcel Discrepancy Note: Allowed for notes about the tax parcels and is used when necessary as well as for general notes about the tax parcel description rather than discrepancies.
TxParAssmtYear	Tax Parcel Assessment Year: Is supposed to identify the current year the tax parcel is supposed to coincide with but has not been maintained and is incomplete and incorrect.
WLIP Status	Wisconsin Land Information Program Status: Identifies whether the parcel is based on PLSS. Domain options are Index and Cadastral. At this time all parcels should be still be Index but this attribute is not currently maintained.
GISDate	Geographic Information System Date: Is no longer maintained 100% of the time but is supposed to be based on the date the parcel is adjusted
GISAgentID	Geographic Information System Agent Identification: Is no longer maintained on a regular basis. The tax parcels that were completed on a contract basis are referenced by an id associated with the party who completed the work but I do not have a complete list of contributors and their information. I have entered myself in some situations when editing parcels but it is not a regularly maintained attribute.
RecordedAc	Recorded Acreage: This is entered during regular maintenance when available.
CalcAc	Calculated Acreage: This is based on GIS computation based on the polygonal representation of the tax parcel and is computed and auto-populated on an irregular basis.
F_GUID	Unknown
AnnoFontSizeTaxPar	Annotation Font Size Tax Parcel: Based on 14 font size options in the domain.
Shape.area	Assigned by ESRI software
Shape.len	Assigned by ESRI software

Assessment/Tax Roll Data

Layer Status

- Monroe County currently uses the GCS Property Assessment & Taxation System for general maintenance of this data. We also are currently testing the GCS Olympus Athena beta program in development for listing maintenance.

Custodian

- Real Property Coordinator in Treasurer’s Office

Maintenance

- Each year our tax and assessment database is archived upon completion of the tax roll and this information is available in a digital form dating back to 2000.

Standards

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

Act 20 Attributes Required by s. 59.72(2)(a)	Field Name(s) in County Land Info System	Notes on Data or Exceptions to DOR Standard
Assessed value of land	Not available as a shapefile attribute	Currently available in DOR XML format for most municipalities for others it is available in a generic data dump space delimited text file.
Assessed value of improvements	Not available as a shapefile attribute	Currently available in DOR XML format for most municipalities for others it is available in a generic data dump space delimited text file.
Total assessed value	Not available as a shapefile attribute	Currently available in DOR XML format for most municipalities for others it is available in a generic data dump space delimited text file.
Class of property, as specified in s. 70.32 (2)(a)	Not available as a shapefile attribute	Currently available in DOR XML format for most municipalities for others it is available in a generic data dump space delimited text file.
Estimated fair market value	Not available as a shapefile attribute	Currently available in DOR XML format for most municipalities for others it is available in a generic data dump space delimited text file.
Total property tax	Not available as a shapefile attribute	Currently available in DOR XML format for most municipalities for others it is available in a

		generic data dump space delimited text file.
Any zoning information maintained by the county	Can be found as a separate layer in our geodatabase	Zoning information is not required in DOR schema
Any property address information maintained by the county	Full_Addr field in EM_AllAddresses shape file	Currently available in DOR XML format for most municipalities but for others it is available in a generic data dump space delimited text file. However, it is only present in perhaps only 60% of tax parcels per my guess.
Any acreage information maintained by the county	RecordedAc field in TaxParcel shape file	Currently available in DOR XML format for most municipalities but for others it is available in a generic data dump space delimited text file.

ROD Real Estate Document Indexing and Imaging

Status

- **Grantor/Grantee Index.** Monroe County's Grantor/Reception indexes exist in hard copy form between 1851 through April 3, 1996. Monroe County Grantee indexes exist in hard copy form between 1879 through April 3, 1996. Those indexes can be found in a digital database between January 17, 1991 and the latest day of business and are maintained in our Document Indexing software by GCS Software Inc.
- **Tract Index.** Our tract index is PLSS-based. Our tract index is available in hardcopy form in bound volumes between 1851 and December 31, 1998 and a digital image format by On Q Solutions COLORTRACT is available on the Monroe County Register of Deeds website. Our tract index is also available in a digital database maintained in our Document Indexing software by GCS Software Inc. between October 1989 and the latest day of business. Back-maintenance is occurring with a goal of indexing at least 30 volumes per year. The County tract index encompasses all documents recorded except DD214s and other nonpublic confidential documents.
- **Imaging.** Our images are available online through our GCS Web Portal dating back to 1935.

Custodian

- County Register of Deeds

Maintenance

- Daily maintenance is occurring.

Standards

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

Non-Metallic Mine Permits

Layer Status

- 100% Complete

Custodian

- Land Conservation Office

Maintenance

- Yes

Standards

- N/A

Simultaneous Conveyance (Surveys)

Layer Status

- 99% complete

Custodian

- Shared between Real Property Coordinator and GIS Specialist starting in 2016

Maintenance

- Ongoing and consistent. A review of data attributes and an audit of this layer needs to take place.

Standards

- Match parcel mapping standards and tie into PLSS. Surveys should meet AE7 and or Chapter 236 standards.

LiDAR and Other Elevation Data

LiDAR

Layer Status

- We have 100% completion. Bare Earth and Classified, the LiDAR data was acquired and Airborne GPC control surveys were completed between March 23rd and November 26th, 2010. There was a flight restriction during the original flight in March 2010 for an area covering the Fort McCoy Army Base in the northwest part of Monroe County. This area was not flown until authorization was cleared and this part of Monroe was flown the end of November 2010. Thirteen flight missions were required to cover the project area. Aerometric, Inc. in conjunction with Ayres Associates acquired accurate Light Detection and Ranging (LiDAR) data using Aerometric's ALTM Gemini LiDAR systems, data was collected at 1700 meters above ground level along 81 pre-planned flight lines at a pulse rate of 70,000 points per second. Airborne GPS and IMU trajectories for the LiDAR sensor were also acquired during the time of flight.

Custodian

- Land Information Officer

Maintenance

- This is a static layer that will not be changed but in the future, if enough change occurs a new collection of LiDAR data would be necessary. This is not under consideration by Monroe County at the moment.

Standards

- *Spatial_Reference_Information:*
 - *Horizontal_Coordinate_System_Definition:*
 - *Planar:*
 - *Map_Projection:*
 - *Transverse_Mercator:*
 - *Scale_Factor_at_Central_Meridian:* 1.0000434122
 - *Longitude_of_Central_Meridian:* -90.64166666666668
 - *Latitude_of_Projection_Origin:* 44.00007392861111
 - *False_Easting:* 671000.000
 - *False_Northing:* 400012.278
 - *Planar_Coordinate_Information:*
 - *Planar_Coordinate_Encoding_Method:* coordinate pair
 - *Coordinate_Representation:*
 - *Abscissa_Resolution:* 0.01
 - *Ordinate_Resolution:* 0.01
 - *Planar_Distance_Units:* survey feet
 - *Geodetic_Model:*

- *Horizontal_Datum_Name*: North American Datum of 1983
- *Ellipsoid_Name*: Geodetic Reference System 80
- *Semi-major_Axis*: 6378137.000000
- *Denominator_of_Flattening_Ratio*: 298.257222101
- *Vertical_Coordinate_System_Definition*:
 - *Altitude_System_Definition*:
 - *Altitude_Datum_Name*: North American Vertical Datum of 1988
 - *Altitude_Resolution*: 0.01
 - *Altitude_Distance_Units*: survey feet
 - *Altitude_Encoding_Method*: Explicit elevation coordinate included with horizontal coordinates
- From our Metadata provided by Ayres Associates: The Monroe County, WI LiDAR project is to provide high accuracy bare-earth processed LiDAR data suitable for Monroe County, WI. The project consisted of acquisition, post-processing, and classification of LiDAR data. The classified bare-earth data achieved the following: Vertical accuracy was to achieve a RMSE Z of 15cm (95% confidence level of less than 30cm) or better in the "Open Terrain" land cover category. Accuracy statement is based on the area of moderate to flat terrain. Diminished accuracies are to be expected in areas of dense vegetation. The accuracy of the LiDAR data as tested met the vertical accuracy or better, however, derived products may be less accurate in areas of dense vegetation due to a lesser number of points defining the bare-earth in these areas.
- This task order is for planning, acquisition, processing, and derivative products of LiDAR data to be collected for Monroe County, Wisconsin. Specifications listed below are based on the US Geological Survey National Geospatial Program Base Lidar Specification, Version 13. Monroe County, Wisconsin has a requirement for LiDAR covering the entire county to be collected at a nominal pulse spacing (NPS) of 1.2 meters.

2 foot contours

Layer Status

- 100% complete

Custodian

- Land Information Officer

Maintenance

- Static Data obtained during the LiDAR project

Standards

- The 2-foot contours were created by Ayres Associates in conjunction with the LiDAR acquisition using the hydro enforced breaklines and the contour key points that were critical in defining the surface. The contours were provided in ESRI Shapefile and AutoCAD DWG formats. The elevation values were embedded in the attribute table of each feature and are part of the 3D feature geometry.

DEM

Layer Status

- 100% complete

Custodian

- Land Information Officer

Maintenance

- Static Data derived from the LiDAR data.

Standards

- The 5ft DEMs were created by Ayres Associates in conjunction with LiDAR acquisition in the following manner. First, ArcGrids in ASCII format were created using TerraModeler version 11.005 (TerraSolid Ltd.). The ASCII grids were then imported into ARC, translated to raster format, and placed in an Arc raster format.

Orthoimagery

2015 Orthoimagery

Layer Status

- 100% complete
- Monroe County participated in Wisconsin Regional Orthophotography Consortium (WROC) 2015
- We will likely attempt to participate in the next (WROC)

Custodian

- Land Information Officer

Maintenance

- Static Data. Hope to acquire imagery once every five years.

Standards

- 6 inch resolution, 1"=100' scale: 5,000 feet above mean terrain (AMT)

1999 Ortho

Layer Status

- 100% Complete

Custodian

- Land Information Officer

Maintenance

- Static Data

Standards

- 1 meter

2005 Ortho

Layer Status

- 100% Complete

Custodian

- Land Information Officer

Maintenance

- Static Data

Standards

- 18 inches, 1"=400' scale

2010 Ortho

Layer Status

- 100% Complete

Custodian

- Land Information Officer

Maintenance

- Static Data

Standards

- 18 inches, 1"=400' scale

Address Points and Street Centerlines

Address Point Data

Layer Status

- 100%

Custodian

- Emergency Management (Will become GIS Specialist in 2016)

Maintenance

- Is currently being modified for mobile routing upon completion of that project under Monroe County IT Administrator and is being maintained in two locations by contract through GEOCOMM and Sherriff's Department with Real Property Coordinator Review and Coordination with GeoComm. In 2016, the GIS Specialist in the Zoning Office will take over the maintenance of the data.

Standards

- The specific standards that were used for the data is unknown but it is known that the spatial placement of the address points has varied in method in years past. However, when the maintenance cycle begins in 2016 a standard is going to be implemented based on the NENA Information Document for Development of Site/Structure Address Point GIS Data for 9-1-1 approved by the NENA Executive Board 09/18/2015. Our attributes will be adjusted in 2016 in order to comply with Wisconsin State Standards as set forth for the Statewide Parcel Map.

Building Footprints

Layer Status

- Zero percent. We do not currently have this information but perhaps it could be derived from our imagery or LiDAR data.

Custodian

- N/A

Maintenance

- N/A

Standards

- N/A

Other Types of Address Information

Layer Status

- 0% complete. We do not currently have any address range layers.

Custodian

- N/A

Maintenance

- N/A

Standards

- N/A

Street Centerlines

Layer Status

- 100% complete

Custodian

- Emergency Management (will become GIS Specialist in 2016)

Maintenance

- Is currently being modified for mobile routing upon completion of that project under Monroe County IT Administrator and is being maintained in two locations by contract through GEOCOMM and Sherriff's Department with Real Property Coordinator Review and Coordination with GeoComm.

Standards

- NENA and or State of Wisconsin standards will be adopted at some time in 2016. These standards need to be investigated further by the future GIS Specialist

Rights of Way

Layer Status

- 0%

Custodian

- N/A

Maintenance

- N/A

Standards

- N/A

WDNR State Trails

Layer Status

- 100% Complete

Custodian

- Wisconsin Department of Natural Resources

Maintenance

- Data obtained from State of Wisconsin

Standards

- Unknown

Monroe County Snowmobile Trail Intersections

Layer Status

- Needs to be updated for 2015-16

Custodian

- Monroe County Forester

Maintenance

- Was last updated in 2014

Standards

- None but some trails were GPS'd on county land the rest were digitized from Orthophotography with estimated locations.

Snowmobile Trails

Layer Status

- 100% complete but may not be up-to-date

Custodian

- Monroe County Forester (may become GIS Specialist in 2016)

Maintenance

- Was last updated in 2014

Standards

- Attempted to adhere to standards and norms followed by other counties that created this data layer.

ATV Trails

Layer Status

- 0% complete but we do have trails

Custodian

- Will become GIS Specialist in 2016

Maintenance

- N/A

Standards

- Will Attempt to adhere to standards and norms followed by other counties that created this data layer, will likely look to Jackson, Clark and Juneau County.

Interstate Mile Markers

Layer Status

- 100% complete

Custodian

- Emergency Management (will become GIS Specialist in 2016)

Maintenance

- Was recently updated

Standards

- Unknown

Railroads

Layer Status

- 100% complete

Custodian

- Emergency Management (will become GIS Specialist in 2016)

Maintenance

- Was recently updated

Standards

- Unknown

Land Use

Current Land Use

Layer Status

- 100% Complete

Custodian

- Zoning Department

Maintenance

- As needed

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.

Future Land Use

Layer Status

- 100% Complete

Custodian

- Zoning Department

Maintenance

- As needed

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

- 100% Complete

Custodian

- Zoning Department

Maintenance

- Annually

Standards

- Matches zoning changes and changes to tax parcels dictated by recordings in the register of deeds office.

Farmland Preservation

Layer Status

- 100% Complete

Custodian

- Zoning Department

Maintenance

- Static Data

Standards

- Based upon parcel layer and descriptions of land entered into the agreements as recorded in the ROD office.

Administrative Boundaries

Civil Division Boundaries

Layer Status

- 100% Complete

Custodian

- Real Property Coordinator and GIS Specialist in 2016

Maintenance

- Real Property Coordinator and GIS Specialist in 2016

Standards

- Adjust to account for changes in municipal boundaries dictated by Wisconsin State Statutes §66.0201-66.0233.

School Districts

Layer Status

- 100% complete and is identified in our geodatabase as School_Districts.
- All tax parcels in our GCS Property and Taxation System are coded with the school district in which they reside. This information is not identified at the parcel level but rather shows up in a different shapefile in our Geodatabase.

Custodian

- Real Property Coordinator (With assistance from GIS Specialist starting in 2016)

Maintenance

- This layer is being maintained with QA/QC overhaul in progress with a planned update reaching completion in 2016.

Standards

- I have acquired information from WDPI that documents school district boundary changes in the School Districts that lie within my county in order to continue a review of our boundaries.

Assembly Districts

Layer Status

- 100% Complete

Custodian

- Real Property Coordinator (Will become GIS Specialist in 2016)

Maintenance

- Static Layer

Standards

- Based on lines dictated by 2011 State of Wisconsin Act 43

Senate Districts

Layer Status

- 100% Complete

Custodian

- Real Property Coordinator (Will become GIS Specialist in 2016)

Maintenance

- Static Layer

Standards

- Based on lines dictated by 2011 State of Wisconsin Act 43 in §4.009.

Congressional Districts

Layer Status

- 100% Complete

Custodian

- Real Property Coordinator (Will become GIS Specialist in 2016)

Maintenance

- Static Layer

Standards

- Based on lines dictated by State of Wisconsin Legislature in ...

LTSB Wards

Layer Status

- 100% Complete

Custodian

- Real Property Coordinator (Will become GIS Specialist in 2016)

Maintenance

- Adjustments are made when municipal boundaries are adjusted pursuant to annexations deannexations and incorporations. The wards are required to be submitted by January 15th and July 15th of each year starting in 2016.

Standards

- Should match recorded documents in the register of deeds office.

Technical School Districts

Layer Status

- 100 % Complete

Custodian

- Real Property Coordinator (Will become GIS Specialist in 2016)

Maintenance

- Static Layer

Standards

- N/A

Drainage Districts

Layer Status

- 100% Complete

Custodian

- Real Property Coordinator (Will become GIS Specialist in 2016)

Maintenance

- The Lemonweir Drainage District has not been dissolved and is currently inactive so no maintenance is required at this time.

Standards

- The Drainage District was identified based on the last records from when taxes were levied to maintain it. If it were to become active, again the boundaries would be revisited. We had to create the layer to comply with state laws.

EMS (Emergency Medical Service)

Layer Status

- 100% Complete

Custodian

- Emergency Manager (Will become GIS Specialist in 2016)

Maintenance

- Yes

Standards

- Unknown

ESZ (Emergency Service Zones)

Layer Status

- 100% Complete

Custodian

- Emergency Manager (Will become GIS Specialist in 2016)

Maintenance

- Yes

Standards

- Unknown

Fire Departments

Layer Status

- 100% Complete

Custodian

- Emergency Manager (Will become GIS Specialist in 2016)

Maintenance

- Yes

Standards

- Unknown

First Responders

Layer Status

- 100% Complete

Custodian

- Emergency Manager (Will become GIS Specialist in 2016)

Maintenance

- Yes

Standards

- Unknown

Fort McCoy

Layer Status

- 100% Complete

Custodian

- Emergency Manager (Will become GIS Specialist in 2016)

Maintenance

- Will begin in 2016. In 2014, a boundary survey was commissioned by Fort McCoy we have a copy and will use it to update our PLSS layers and everything on down to this boundary.

Standards

- Based upon tax parcel layer

Hospitals

Layer Status

- Unknown

Custodian

- Emergency Manager (Will become GIS Specialist in 2016)

Maintenance

- Needs Maintenance to begin will be reviewed in 2016

Standards

- Unknown

Law Enforcement

Layer Status

- 100% Complete

Custodian

- Emergency Manager (Will become GIS Specialist in 2016)

Maintenance

- Yes

Standards

- Unknown

Lake Districts

Layer Status

- 0% (We do not have this layer at this time but do have two lake districts coincident with the City of Sparta and City of Tomah.)

Custodian

- Real Property Coordinator (Will become GIS Specialist in 2016)

Maintenance

- Should be adjusted when annexations take place

Standards

- Should adhere to Lake District Rules

Sanitary Districts

Layer Status

- 0% (We do not have this layer at this time but do have a sanitary district)

Custodian

- Real Property Coordinator

Maintenance

- Should be adjusted when notified by local officials

Standards

- Should adhere to Sanitary District documentation.

Native American Lands

Layer Status

- 0% (We have Native American Lands in Monroe County but do not currently have any layers associated with that information.)

Custodian

- N/A

Maintenance

- N/A

Standards

- N/A

Monroe County Forest

Layer Status

- 100% complete

Custodian

- Monroe County Forester

Maintenance

- Out of maintenance at this time last updated two years ago

Standards

- Based on parcel mapping

Zip Codes

Layer Status

- 100% Complete

Custodian

- Real Property Coordinator (Will move to GIS Specialist in 2016)

Maintenance

- Will be modified as addresses near the edges of zones are assigned (overhauled in 2015)

Standards

- N/A

Other Layers

Hydrography Maintained by County or Value-Added

Layer Status

- Unknown. (Monroe County does not have any hydrographic layers in use beyond The DNR hydro_rivers and hydro_openwater.)

Custodian

- Wisconsin Department of Natural Resources

Maintenance

- This file is static information

Standards

- The rivers shapefile includes all line features (arcs) in the 1:24,000-scale Hydrography data model (Version 6). The arcs are attributed to easily define themes based on cartographic or modeling needs. Arc attributes include feature names and Water Body ID Codes (WBICs). The Wisconsin Department of Natural Resources (DNR) developed this statewide Hydrography geographic data layer from 1:24,000-scale sources. The 1:24K Hydrography database includes information about surface water features represented on the US Geological Survey's 1:24,000-scale topographic map series such as perennial and intermittent streams, lakes, and so on. A large portion of the DNR's Waterbody Identification Codes (WBICs) has been incorporated into the 24K Hydro layer, along with surface water names from the USGS Geographic Names Information System (GNIS) database. Wetlands delineations are NOT included in the 24K Hydro data layer. Following the initial release of the 24K Hydrography database in October of 2000, a series of data updates and enhancements have culminated in Version 6 of the 24K Hydro layer, which was completed in June 2007. Version 6 includes data enhancements and corrections.
- The openwater shapefile includes all Simple Hydro Areas (SHAIDs) in the 1:24,000-scale Hydrography data model (Version 6). SHAIDs include hydrographic features only and do not contain islands or uplands. SHAIDs contain various descriptive attributes, including names and Water Body ID Codes (WBICs). The Wisconsin Department of Natural Resources (DNR) developed this statewide Hydrography geographic data layer from 1:24,000-scale sources. The 1:24K Hydrography database includes information about surface water features represented on the US Geological Survey's 1:24,000-scale topographic map series such as perennial and intermittent streams, lakes, and so on. A large portion of the DNR's Waterbody Identification

Codes (WBICs) has been incorporated into the 24K Hydro layer, along with surface water names from the USGS Geographic Names Information System (GNIS) database. Wetlands delineations are NOT included in the 24K Hydro data layer. Following the initial release of the 24K Hydrography database in October of 2000, a series of data updates and enhancements have culminated in Version 6 of the 24K Hydro layer, which was completed in June 2007. Version 6 includes data enhancements and corrections.

Airfields

Layer Status

- Unknown

Custodian

- Emergency Manager (Will shift to GIS Specialist in 2016)

Maintenance

- I did some maintenance on this about two years ago with staff

Standards

- Unknown

Airports

Layer Status

- Unknown

Custodian

- Emergency Manager (Will shift to GIS Specialist in 2016)

Maintenance

- I did some maintenance on this about two years ago with staff

Standards

- Unknown

Campgrounds

Layer Status

- Unknown

Custodian

- Emergency Manager (Will shift to GIS Specialist in 2016).

Maintenance

- Unknown

Standards

- Unknown

Cemeteries

Layer Status

- 100% Complete

Custodian

- Emergency Manager (Will shift to GIS Specialist in 2016).

Maintenance

- I reviewed this layer with staff two years ago.

Standards

- N/A

Clinics

Layer Status

- Unknown

Custodian

- Emergency Manager (Will shift to GIS Specialist in 2016).

Maintenance

- Unknown

Standards

- Unknown

Critical Facilities

Layer Status

- Unknown

Custodian

- Emergency Manager (Will shift to GIS Specialist in 2016).

Maintenance

- Unknown

Standards

- Unknown

CREP Agreements

Layer Status

- 100%

Custodian

- Land Conservation Office

Maintenance

- Per Contract

Standards

- A buffer from stream for 15 Years

CREP Easements

Layer Status

- 100%

Custodian

- Land Conservation Office

Maintenance

- Per Contract

Standards

- Perpetual and they are based on survey

Fishing Easements

Layer Status

- 100%

Custodian

- Land Conservation Office

Maintenance

- Per Signed Agreement

Standards

- A 33' buffer from stream

Manure Storage Permits

Layer Status

- 100%

Custodian

- Land Conservation Office

Maintenance

- Per occurrence of issued permit

Standards

- N/A

Towers

Layer Status

- Unknown.

Custodian

- Emergency Manager (Will shift to GIS Specialist in 2016).

Maintenance

- This file is not currently being maintained and needs a review, but is located in our geodatabase as Towers..

Standards

- Standards need to be investigated.
- Current attributes are Type, Owner, Height ABO, Longitude, Latitude, and Tower Use.

Bridges and Culverts

Layer Status

- 0% complete

Custodian

- N/A

Maintenance

- N/A

Standards

- N/A

Lot Corners

Layer Status

- Less than 1% Complete

Custodian

- Real Property Coordinator (will become GIS Specialist in 2016)

Maintenance

- When surveyors and in-house staff share coordinates, they are entered into our records. The majority of corners were resolved using RTK methods but a few of the older ones may have been static and derived from post-processing to get the solution.

Standards

- Corners would meet the definition of survey grade specifications as determined by WSLS or WCSA

Mobile Home Parks

Layer Status

- Unknown

Custodian

- Emergency Manager (Will shift to GIS Specialist in 2016).

Maintenance

- Unknown

Standards

- Unknown

Polling Locations

Layer Status

- 100% Complete

Custodian

- Real Property Coordinator (Will become GIS Specialist in 2016)

Maintenance

- Needs review prior to elections.

Standards

- N/A

Town Halls

Layer Status

- 100% Complete

Custodian

- Real Property Coordinator (Will shift to GIS specialist in 2016)

Maintenance

- Needs Review

Standards

- N/A

Water Points

Layer Status

- Unknown

Custodian

- Emergency Manager (Will shift to GIS Specialist in 2016).

Maintenance

- Unknown

Standards

- Unknown

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.

LAND INFORMATION SYSTEM

An orderly method of organizing and managing land information and land records

– Wis. Stats. section 16.967(1)(c)

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 Monroe County land information system, with focus on how data related to land features and data describing land rights are integrated and made publicly available.

Current Land Information System

Diagram of Monroe County Land Information System

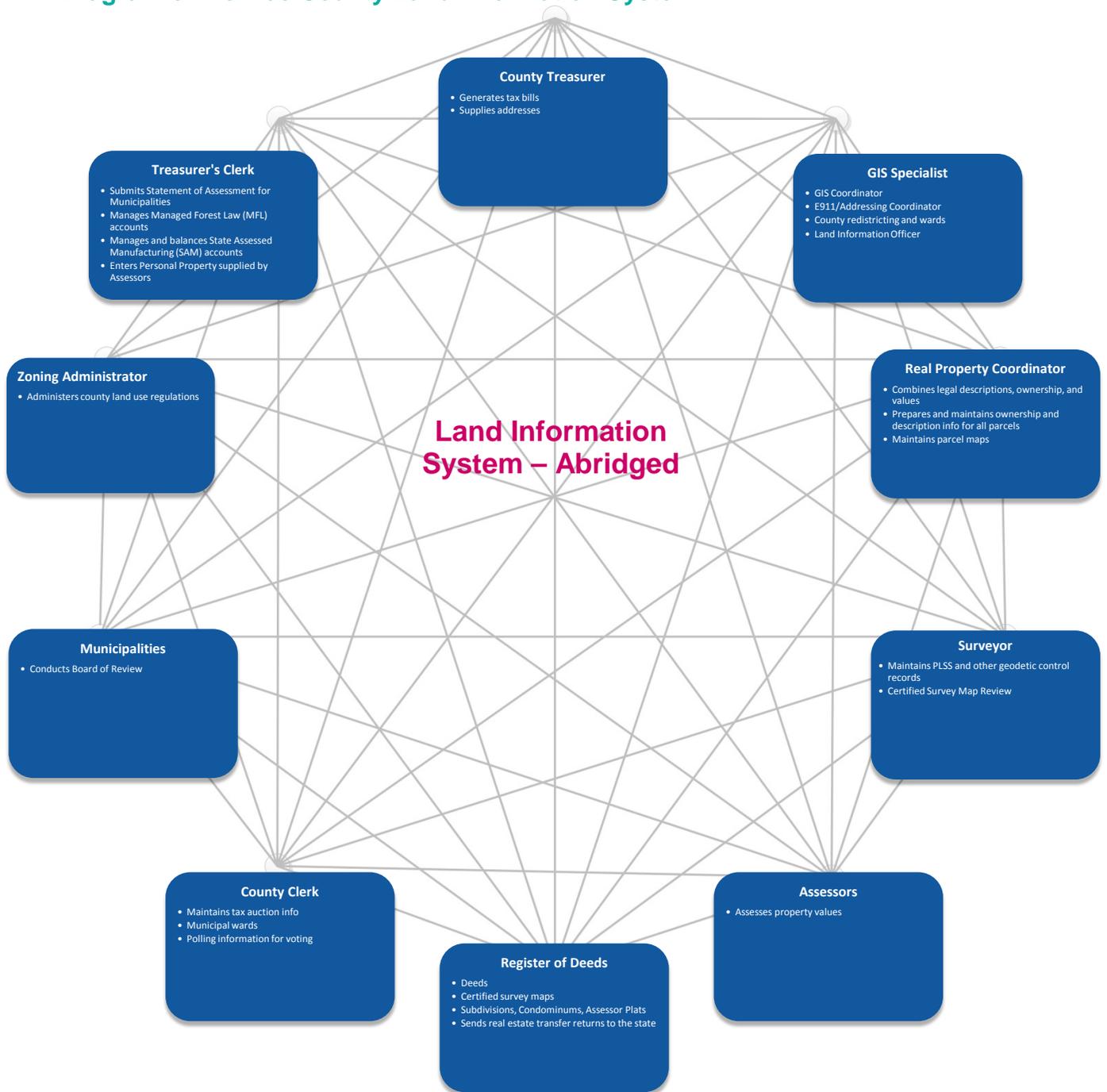


Figure 1. Monroe County Land Information System

County Parcel Data Workflow Diagram

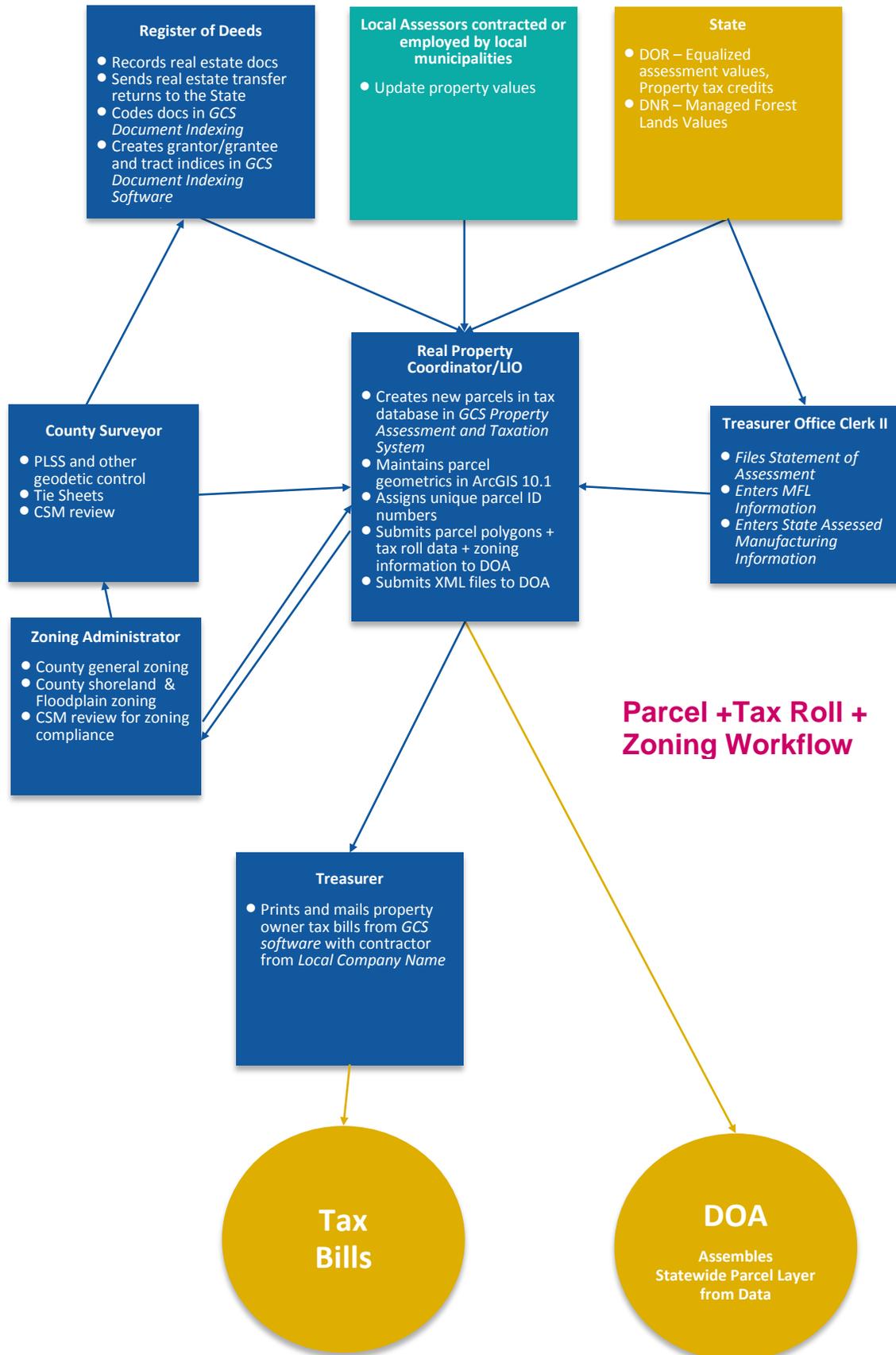


Figure 2. Monroe County Parcel + Tax Roll + Zoning Workflow

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.

Metadata and Data Dictionary Practices

Monroe County uses ArcCatalog to develop metadata. The custodian of the data should be creating metadata consistent with the FGDC Content Standard for Digital Geospatial Metadata.

Municipal Data Integration Process

The City of Sparta provides their zoning information covering land in within the City and its extraterritorial zone to us. This information is not updated on a regular basis. When the information is provided to Monroe County, we integrate it with our information and display it on our Geographic Information Web Server.

Public Access and Website Information

List websites for public access to land information, perhaps in a table format as in the example below. If your county has one single URL for multiple functions (GIS web mapping, land records search, tax parcel search, zoning, and PLSS tie sheets), make sure it is clear to the reader that one website serves as a portal and/or achieves multiple functions. If county zoning information is available online—whether through an app, PDF map, or other format—note that as well.

If applicable, describe use of contractors, consultants, and/or third-party technology for access (e.g., specific web applications, consultants, software developers, offsite hosting).

Public Access and Website Information

Type of Website	Software or App	3 rd Party or Contractor	URL	Update Frequency/Cycle
GIS web mapping site	<i>WG Xtreme</i>	ADC	http://monroecowi.wgxtreme.com/	Weekly
ROD land records search tools	<i>GCS Webportal</i>	GCS	http://monroerodweb.co.monroe.wi.us/gcswebportal/search.aspx	Daily
RPL or tax parcel site	<i>GCS Webportal</i>	GCS	http://monroerodweb.co.monroe.wi.us/gcswebportal/search.aspx	Live updates
PLSS tie sheets	County Website by ADC		http://www.co.monroe.wi.us/department/s/surveyor/	TBD
ROD tract index for older documents	<i>COLORTRACT</i>	Q Solutions	http://monroe.colortract.com/	Static

Data Sharing

Data Availability to Public

Monroe County adheres to Wisconsin’s Open Records Law. Monroe County provides a wealth of information via our different websites referenced above. Our GIS, Tax & Assessment, and Survey Files and our tract indexes are available free of charge. We also have Register of Deeds documents available for statutory copy fees that are \$2 for the first page of a document plus \$1 per each additional page. We do add a convenience fee of \$1.50 per ever \$50 worth of documents purchased. Escrow options are available as well waiving the convenience fee.

In addition to the data noted above Monroe County has numerous and links on department webpages to assist people with accessing information. Where appropriate, as needed, and as time allows, brief summaries/info sheets about County data will be produced for use in documents such as handbooks, plans, and internet pages as well.

Data Sharing Restrictions

Monroe County’s information is searchable by name. Monroe County does not currently have any opt out policy for names on the internet, however, should someone request for that we likely would be able to

comply with their request. We do not currently have any official data sharing policies enacted, as our information is freely available. We do charge fees for hard copy map production at the equivalent of \$5 for a letter size sheet of paper but do provide the ability for people to produce maps on their own via our website and will produce and email maps in a pdf format free of charge. Monroe County charges \$50 per shapefile but only \$200 for our entire geodatabase, our countywide orthophotography is available for \$100. These data charges will be revisited in the future. In addition, we charge \$200 for our tax & assessment data file.

Government-to-Government Data Sharing

As opportunities arise, Monroe County has been willing to share or provide data free of charge with other government entities, scholastic institutions and students. We also have shared data with private groups or entities on behalf of local government units.

Training and Education

Currently the users of geographic data provide technical assistance to each other and other county departments and local municipalities who are developing, maintaining, and using computerized land information. Often training grant funds are used to cover expenses associated with travel and training. When time and budgets allow Monroe County will allow employees to attend seminars and training offered via institutions and groups such as Wisconsin Land Information Association (WLIA), Wisconsin Society of Land Surveyors (WSLS) and Wisconsin Real Property Listers Association (WRPLA). Online tutorials and seminars are another tool in self-education that is encouraged as workload allows. In addition, as opportunities arise Monroe County will coordinate with agencies, associations and educational institutions to provide education to its employees and the public. Monroe County to the best of our ability will assist and educate constituents who are using our data or have questions about our data so that they can make informed and educated decisions.

4 CURRENT & FUTURE PROJECTS

Project #1 Transition to a Searchable Format for Parcel and Zoning Data Submission as defined by the Department of Administration under Benchmark 1 & 2.

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

Project Description/Goal

To update our digital parcel data schema in order to account for all Act 20 attributes. Our parcel data does not have owner or address data associated with it. When we do have the attribute, data required it is not compliant with the standardized field names and domains requested for Version 2.

How searchable format will be met

- Describe how your county will meet the searchable format for both Benchmark 1 and 2 by March 31, 2018 at the latest. Counties are encouraged to meet the searchable standard as soon as possible. See the *Version 1 Statewide Parcel Map Database Project Interim Report* and its appendices for details on the searchable format.
- Note: LIO certification required upon data submission. Land information officers will be required to certify that data meets the standards for Benchmark 1 and 2 upon submission of data for V2. Counties will certify their own level of attribute completeness relative to an **element occurrence standard**. This means that if an element (such as a property address, a total assessed value, total property tax value, etc.) actually occurs for a given parcel, then this element should be included in the submitted dataset. This also means that there may be justifiable omissions from the submitted dataset. Examples might be missing tax data for tax-exempt properties, no address when no structure is present on a property, etc.

Business Drivers

The *Project Plan to Achieve Searchable Format for Benchmarks 1 & 2* is a requirement for Strategic Initiative grant eligibility. Currently Monroe County data does not comply with state requirements and in order for us to continue to earn grant money, we must continue to abide by the requirements set forth by the DOA. Achieving standards will make our data more readily available to people working on statewide datasets, which in turn will allow Monroe County to be included in a wider variety of research and studies.

Objectives/Measure of Success

The objective is to meet the searchable format for Benchmarks 1 & 2 (Parcel and Zoning Data Submission, Extended Parcel Attribute Set Submission) by the end of 2016.

Project Timeframes

The project will begin on January 4, 2016 and will continue until the objectives are met, hopefully by March 31, 2017. It is hard to determine how long it will take to achieve this goal because we have not had time to determine the exact processes or plan until this time.

Responsible Parties

The GIS Specialist position will begin on January 4, 2016 and is charged with achieving this goal and others associated with upcoming benchmarks beyond the ones set out in this project. Without this position, it will continue to be difficult if not impossible for Monroe County to continue to maintain its existing data let alone fulfill the requirements set forth by the State of Wisconsin. We determined that it would be advantageous to have someone employed by the county rather than rely on contract work. The quality of our data uncompromised. The uneven efforts that plagued past contract projects jettisoned. In order to properly achieve our goals and serve our constituents and beyond the best choice is in-house staff. The addition of the GIS Specialist position including fringes will cost \$61,180. This position also required additional

supervisory staff wage increases that accounted for 3% of the fringes and salary of the direct supervisory of the GIS Specialist. The total costs associated with the GIS Specialist position. This does not include any possible merit wage increase applied in 2016.

Estimated Budget Information

Project	Item	Unit Cost	Cost	Total Project Cost
1. Transition to a Searchable Format under benchmark 1	a. GIS Specialist	100% of \$61198	61198	61198
	b. Zoning Administrator	3 % of \$96333.33	2890	2890
				64088