



Wisconsin Land Information Program
Land Information Modernization and Integration Plan: 2010-2015

Final- September 2010



Adams County Land Records Modernization Plan 2010

Statutory Reference: Wis. Stat. Sec. 59.72 (3) Land Information Office. The (county) board may establish a county land information office or may direct that the functions and duties of the land information office be performed by an existing department, board, commission, agency, institution, authority or office. The county land information office shall:

Coordinate land information projects within the county, between the county and local government units, between the state and local governmental units and among local governmental units, the federal government and the private sector.

Within 2 years after the land information office is established, develop and receive approval for a county-wide plan for land record modernization. The Plan shall be submitted for approval to the Department of Administration under s. 16.967 (3) (e).

Review and recommend projects from local governmental units for grants from the Department of Administration under s. 16.967 (7).

Plans are an indispensable component of the Wisconsin Land Information Program (WLIP). Given the enormous benefits of geographic and land information system technologies to date, these plans, in combination with annual GIS inventory data, promise continued benefits for all levels of government in Wisconsin. These benefits include:

- reduction of duplication of effort across all levels of government;
- more accessible, useable, complete, accurate and timely information available to local units of government, state and federal agencies, public utilities and the public;
- improved analysis, decision support, and program administration; and
- increased ability to provide greater public access to geographic information via the Internet.

DEFINITION OF LAND INFORMATION

Do you have land information? Wis. Stat. Sec. 16.967(1) sets forth the operative definition. The definition is inclusive rather than exclusive. The definition is: ". . . any physical, legal, economic or environmental information or characteristics concerning land, water, ground-water, subsurface resources, or air in this state". The use of the term "any" is expansive and is not limited by the words that follow. The word "characteristics" is emphasized to highlight the notion that land information is any information that can be geographically referenced to areas, lines and points on the earth. Non-traditional examples of "geo-referenced" data include social, economic, public safety, health or other statistical information organized by or referenced to location, such as parcels, census blocks, zip codes, addresses, minor civil divisions, the Public Land Survey System, counties, service regions, natural zones, or regions. The statutes provide an extensive, but not exhaustive, list of other examples "including 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."

Contents

I. EXECUTIVE SUMMARY	4
A. Identification and Contact Informationm.	4
B. Participants in Planning Process	4
C. Summary of Plan.....	5
D. Land Information Website.	6
E. Additional <u>Land Information Website Information</u>	7
II. LAND INFORMATION PLAN	6
A. Goals and Objectives	6
B. Progress Report on Ongoing Activities.	9
C. New Initiatives	10
1. Proposed Projects.	10
2. Assistance Requested.....	12
3. Problems Encountered.....	13
D. Custodial Responsibilities.	13
E. Framework Data, System Implementation and Statewide Standards.	15
1. Geographic Positioning Reference Frameworks	16
2. Orthoimagery and Georeferenced Image Base Data.....	17
3. Elevation Data Products and Topographic Base Data	18
4. Parcel Mapping.....	18
5. Parcel Administration and Assessment Information	19
6. Street/Road Centerlines, Address Ranges and Address Points	22
7. Hydrography, Hydrology and Wetlands Mapping	23
8. Soils Mapping, Land Cover and other Natural Resource Data.....	23
9. Land Use Mapping	24
10. Zoning Mapping.....	25
11. Election and Administrative Boundary System	26
12. Critical Infrastructure and Facilities Management	27
13. Database Design and System Implementation	28
F. Public Access	30
G. Integration and Cooperation	32
H. Communication, Education, Training and Facilitated Technical Assistance	33
I. Administrative Standards Not Associated With Foundational Elements	34

I. EXECUTIVE SUMMARY

A. Identify your county and the name of the person completing this form.

Jodi Helgeson
Adams County Register of Deeds/Land Information Officer
PO Box 219 – 402 Main St
Friendship, WI 53934
Voice Phone 608-339-4206
Fax Phone 608-339-4514
Email jhelgeson@co.adams.wi.us

B. Identify those who participated in the process of preparing the plan. List organizational affiliations, names, addresses, e-mails and phone numbers of designated contact person(s) for this plan.

Alfred Sebastiani, County Board Supervisor
PO Box 278 Friendship WI 53934 – 608-339-4200

Mary Ann Bays, County Treasurer
PO Box 470 Friendship WI 53934 – 608-339-4202
mbays@co.adams.wi.us

Phil McLaughlin, Zoning Administrator
PO Box 187 Friendship WI 53934 – 608-339-4222
pmclaughlin@co.adams.wi.us

Jodi Helgeson, Register of Deeds
PO Box 219 Friendship WI 53934 – 608-339-4206
jhelgeson@co.adams.wi.us

Tyler Grosshuesch, GIS Specialist/Assistant Land Information Officer
PO Box 102
Friendship WI 53934 - 608-339-4546
tyler.grosshuesch@co.adams.wi.us

Christopher Murphy, County Conservationist
PO Box 287 Friendship WI 53934 – 608-339-4268
cmurphy@co.adams.wi.us

Adams County Land Records Modernization Plan 2010

Gregory Rhinehart, County Surveyor
PO Box 187 Friendship WI 53934 – 608-339-4222
gregr@msa-ps.com

Ron Chamberlain, County Highway Commissioner
1342 County Road F – 608-339-3355
rchamberlain@co.adams.wi.us

C. Provide a concise executive summary of this plan not exceeding one page.

This plan describes Adams County's land records modernization efforts to date as well as our goals and objectives for the future.

Adams County's first land records modernization plan was adopted in 1996 and subsequently updated and adopted in 2000 and 2005.

Adams County has benefited greatly from the Land Information Program. The fees retained for the program have allowed the county to continue to move forward from paper land records to digitized land records including but not limited to parcel mapping, document imaging, document indexing, permitting, assessment and taxation. As land records grow from collection and design into decision support, more county departments and citizens are involved with land records. The continued integration of data from various departments will increase productivity in preparing reports and projects. By identifying the departmental needs, county data can be more integrated, redundancy can be reduced and accuracy increased. It is anticipated that at the end of the cycle of this 5 year plan, Adams County will have reached a major goal in providing data in multiple ways that benefit consumers, and will have reviewed the land records software The County uses with the goal of making technical advances such as electronic recording.

The county looks forward to future benefits from the Wisconsin Land Information Program including retained fees and grants.

Adams County updates its profile in the Wisconsin GIS Survey at least once a year as a WLIP program requirement. The survey provides a statewide snapshot of the status of land information. County land information plans provide the narrative and long-range planning horizon necessary to put these annual snapshots in context.

Adams County Land Records Modernization Plan 2010

D. If applicable, provide the address for your county's land information Website(s).

Adams County Land Records Website
www.adamscountylandrecords.com

E. If applicable, provide the address(s) for any Websites serving land information that are maintained or sponsored by municipalities (cities, villages and towns) within your county.

The City of Adams and the Town of Rome are the only municipalities that maintain land information data. It is not currently available on the internet. Adams County would consider adding the Town of Rome 2005 6" resolution photography to the County land records website.

II. LAND INFORMATION PLAN

A. Goals and Objectives

1. State the goals and objectives of the county relating to the horizontal and vertical integration of land information and systems among users of land information in Wisconsin. Include a brief assessment of the internal and external customers' needs and priorities for land information and technology. Identify the timeline for meeting goals and objectives and (where appropriate) your measurement methodology for achieving them by addressing the following questions:

a. What data or information does the county need that it currently uses or can acquire from other state or local sources?

b. What data or information does the county need that it does not have and are not easily acquired? What obstacles exist to acquiring this information?

c. How is or will the county ensure that county-maintained land information is, or can be made available in a standard industry format for use by others?

d. How is or will the county ensure that the land information it has is geographically referenced for use by others?

e. How is or will the county ensure currency and continued maintenance of its digital land information?

Adams County Land Records Modernization Plan 2010

- Goal 1: Enhance the County's Ability to Provide and Distribute Land Information
- Goal 2: Education of County Staff and Citizens
- Goal 3: Maintain Existing GIS Data and Obtain Additional Datasets
- Goal 4: Embrace Current Technology
- Goal 5: Improve Public Safety
- Goal 6: Maintain Historical Land Information and Improve Archiving

Goal 1: Enhance the County's Ability to Provide and Distribute Land Information

Adams County web sites provide 24/7 access to tax and assessment information, document indexes, and maps. The county also provides standard data sets on request. Offering map (WMS) and feature (WFS) services would improve access to the map and the data. An ArcIMS service is currently available. Changing data formats and improving documentation would improve internal data access. Adams County would like to establish an FTP site for data distribution, but bandwidth constraints prohibit this.

Goal 2: Education of County Staff and Citizens

Adams County intends to take advantage of educational opportunities for land records-related employees to receive training and education at seminars, vendor sessions, university classes and professional meetings. The County will also encourage department heads to budget for various educational opportunities, including technical training for staff using land records. Adams County will continue to encourage departments to participate in the GIS development process.

Goal 3: Maintain Existing GIS Data and Obtain Additional Datasets

It is imperative to maintain and improve existing data layers. Significant investments have been made in county data, especially the parcels layer. The zoning layer must be completed and the spatial and attribute accuracy of all data layers can be improved. Improved system maintenance and quality assurance, LiDAR acquisition, review of structure points, driveway locations and development of a recreational trail layer are priorities.

Goal 4: Embrace Current Technology

Adams County reviews new technology that may assist in creating and delivering land records information both for internal use and for web delivery. The County will also utilize features it has available to address personally identifiable information. The county web map is based on deprecated technology (ESRI ArcIMS) and the County will consider alternatives. The County would like to develop web maps for specific internal applications.

Goal 5: Improve Public Safety

Adams County has recently made significant improvements in public safety uses of land information and intends to continue improving. Emergency dispatchers and patrol cars have access to digital maps that are integrated with the dispatch system.

The high probability of wildfires in Adams County led the WI Department of Natural Resources and the County to obtain structure locations and driveways to accompany the address point layer. These structure locations will also be valuable in the event of a flood or other disaster. Maintenance of this new dataset will be the responsibility of Adams County. Adams County is receiving grant funding from the WI Department of Commerce – Community Development Block Grant- Emergency Assistance Program to obtain LiDAR data to FEMA to update the FIRMs. This data will also be used in future projects. While the County's ultimate goal is the issuance of revised FIRMs by FEMA, the acquisition of LiDAR-derived data is a very significant advance in data quality and availability for Adams County. The County will continue to work with emergency service agencies to provide printed maps and digital products that will help them in their work. The County hopes to offer improved reporting and mapping of incidents that require a response from an emergency service agency.

Goal 6: Maintain historical land information and improve archiving

Multiple county departments maintain archives that include land information. This includes air photos, maps produced as parts of studies and reports, and associated tabular information. Much of this information exists only in these particular Adams County offices and in hard copy. Making these resources available in an electronic format would allow for their wider use and improve information security by creating a backup copy. Retention requirements for many land records including those located in the Register of Deeds Office require long term secure archiving solutions.

2. Describe how the county's technology platform and environment and database design standards and practices (including metadata and other elements listed below in the "Database Design" section) supports the county's goals and objectives relating to modern and integrated land information and supports the countywide information technology vision, mission, goals and strategies.

The County is working toward integrated system designs in new technology acquisitions and in database design. New software purchases are scrutinized by County GIS and IT staff to ensure that these systems comply with open architecture requirements. The County works with the developers of current database systems to ensure integration with other databases. Efforts have been marginally successful with integrating current systems with other systems.

All systems are required to function in the Windows Server environment and each departmental request is being reviewed from a database standpoint to ensure compatibility where applicable. The use of ESRI ArcGIS is recommended for the development of GIS projects specific to a department.

B. Progress Report on Ongoing Activities.

Since the adoption of the last updated plan in 2005, Adams County has achieved one of its major goals. A GIS Technician position was established and supported by the budget process in 2007. In 2009, the position was changed to GIS Specialist/Assistant Land Information Officer to better reflect the duties of the position.

Adams County completed the conversion to an ESRI geodatabase model.

Adams County has also developed a data sharing agreement with the Wisconsin Department of Natural Resources to share a variety of GIS data for use in emergency planning and response, with updates provided annually. The data are used in emergencies so the situation can be better visualized and to assist in damage assessment.

Adams County has improved the land records website with the addition of document recording data, providing consumers with access to indexes and images of documents that have been recorded in the Adams County Register of Deeds Office (ROD). Additional information has been added to the tax parcel information web site including tax payment information, links to the County web map, and links to the ROD document indexes and images.

The Land Information Officer conducted a basic study to identify the records various departments create and maintain and to identify redundancy. A mapped drive on the network file system was dedicated to the publication of various GIS projects. Address data is shared between the tax assessment roll and the 911 system while allowing for each system's unique requirements.

The Land Information Committee was altered to include a broader range of departments and to meet the requirements of Wisconsin Act 314 which includes the addition of a realtor.

The Land Information Officer and GIS Specialist attended various land records seminars. The GIS Specialist also has been working directly with departments to determine their needs.

Adams County adopted a Comprehensive Plan that was developed using data from Adams County land records.

The county is continuing to develop a zoning layer.

C. New Initiatives

This section contains critical information. It is the basis upon which local units of government can proactively establish prospective arrangements for cooperation, collaboration and confederation of efforts to save money, time, and effort, and avoid duplication of land information. It also defines the obstacles to such efforts so that they can be identified and removed.

Describe major initiatives, if any, the county intends to pursue over this planning horizon. This would include, but not be limited to, automation of land information or systems; new or updated data development; acquisition or development of land information system hardware, software, staff; Internet-based land information systems; mobile or wireless communications systems using land information; support of Wireless 911; delivery of major county programs such as comprehensive planning, emergency response or human services; and regional or intergovernmental initiatives.

1. Proposed Projects. Highlight specific activities that the county proposes to initiate to enable land information to be readily translatable, retrievable, and geographically referenced for use by any level of governmental unit and the public. Identify specific budget information, timeframes, staffing and other pertinent data associated with these initiatives.

Proposed Project 1: Improve and maintain datasets important to public safety. Make the data accessible to emergency services and the public.

Proposed Project 2: Continue land information and technology education of all departments.

Proposed Project 3: Seek revision of FEMA Flood Insurance Rate Maps

Proposed Project 4: Update web map to current technology and provide additional data layers including those required by statutes.

Proposed Project 5: Digitize documents and indexes from county surveyor's office and make them available over the internet.

Proposed Project 6: Catalog, archive and digitize hard copy land information, and catalog and archive historical digital data.

Adams County Land Records Modernization Plan 2010

Proposed Project Detail:

Proposed Project 1:

Structure points, driveways, recreational trails and boat landings are datasets with great value to public safety agencies. Knowledge of structure locations aids disaster planning, emergency response and damage assessment efforts, especially in case of flood and fire. As noted above, the County recently obtained structure point and driveway datasets. This could be updated by interpretation of aerial imagery and planned building permit tracking system. The county will identify recreational trails and boat landings and provide public access to the data. The County will work to provide access to these datasets in formats most useful to emergency responders.

Proposed Project 2: Training on development and use of GIS for departments is needed. Training can be offered within the county by land information professionals or a consultant when needed. Retained WLIP fees are critical to this effort. Adams County is reviewing methods for data viewing and delivery internally and for the public. This may result in simpler user interfaces that may require less training.

Proposed Project 3: Adams County is receiving a grant from the WI Department of Commerce – Emergency Assistance Program to obtain LiDAR to prompt the issuance of revised FIRM's. Derivative products from LiDAR include contours, a digital elevation model and a triangulation network. WLIP retained fees will assist this effort by providing funds for updated hardware and software to make the most of data derived from this project.

Proposed Project 4: Adams County will review the functionality of and the technology that supports the web map and other land records applications to determine if these are the best products for Adams County. Additional data layers, including zoning, will be made available on the web map. WLIP retained fees are critical to the maintenance of the existing web map and the planned project.

Proposed Project 5: While the process has started to migrate the County Surveyors records from paper to digital, there is still a great need to continue this process and also to include tie sheets, tie sheet maintenance records and other documentation filed in the county surveyor's office in this project. WLIP retained fees and base budget grants are critical to the continuance of this project.

Proposed Project 6: Adams County continues to migrate from paper records. While many recorded documents have been scanned and indexed, there are many records held by the Register of Deeds that have not. The tract index is the highest priority record to be digitized and made electronically accessible. Other documents to be digitized and include subdivision and condominium plats and documents recorded before 1983. Digitizing these records and making them searchable will likely require the purchase of additional software and hardware. WLIP retained fees are critical to this project. Future base budget grants could be designated to this project as well.

Adams County Land Records Modernization Plan 2010

2. Assistance Requested. Describe any initiatives the county would like the Department of Administration to assist with (such as adoption of policies, standards, coordination, integration efforts, user needs assessments, technical assistance, education, funding). The following questions must be addressed:

a. What is your county's strategy to secure the technical assistance needed to carry out your Land Information plan, including utilization of the land info technical assistance e-mail listserv (doa-landinfo@lists.wi.gov), training opportunities and contractual assistance?

Adams County staff subscribe to the land information technical assistance e-mail listserv. Staff also participate in professional organizations such as the Land Information Officer's Network (LION), the Wisconsin Register of Deeds Association, the Wisconsin Real Property Lister's Association, the Wisconsin Treasurers Association and the Wisconsin Land Information Association. Departmental staff familiar with GIS software will also be sought to assist departments in maintaining their GIS.

Adams County also adheres to framework standards, as applicable, such as those developed by the Wisconsin Land Information Association and is reviewing electronic recording standards as developed by the Property Records Industry Association (PRIA) and the Electronic Recording Council of Wisconsin.

b. What is your county's plan to finance the costs to continue previous investments in land records modernization/integration made in whole or in part with Land Information Program funding?

Adams County participates in the Wisconsin Land Information Program and for the past several years has been eligible to receive base budget funding. Adams County Board of Supervisors has been supportive of land records modernization projects in the past and it is anticipated this will continue. In 2001, a resolution was passed to assist in the completion of the parcel mapping project which began in 1995. This allowed the project to be completed in 5 years rather than the projected 15 years using only retained WLIP funds. The County also provides technical IT support in the development and maintenance of a land records website and updates to the land records programs for various departments. Adams County continues to utilize the additional \$2 recording fee to create and maintain an internet site for land records. This site is continually improved to provide access to current data for customers. Due to the downturn in the economy, the local WLIP funds as well as the state WLIP funds have decreased while costs for developing and maintaining GIS and the methods to deliver data to the consumer has increased. It is critical that WLIP funding continue.

Adams County Land Records Modernization Plan 2010

c. What is your county's strategy for ensuring access to county land information including publishing through a county website, FTP site, specialized online applications? Adams County maintains a land records website and participates in the Wisconsin Land Information Program which requires that \$2 of each document recorded to be utilized for access to land records on the internet per ss 59.72(5). The county is redesigning the main web page of the land records website to make it more user friendly and to allow access to a subscription website when available.

d. What is your county's plan to participate in a statewide GIS repository when one is made available?

The County plans to participate in the data repository when it is available, but there is concern that the repository licensing and distribution policies may be incompatible with existing County policies. This is a valuable effort and will be a very important resource that the County hopes to support with our participation.

e. How does the county plan to maximize resources by utilizing competitive procurement processes (bid, RFP and justified sole-source) consistent with State of Wisconsin and local procurement rules?

Adams County generally uses quality based selection for procuring a vendor. Occasionally a Request for Qualifications for professional services is used.

3. Problems Encountered. Describe any projects or activities your county would like to undertake that has not been stated above. Please describe obstacles that have prevented your County from proceeding, such as staff, funding, coordination problems, etc. Please be specific.

While Adams County has developed a subscription map viewer, this project is only in the testing phase. Because of lack of staff time, marketing has not been developed to promote this site and administer site access. Adams County is limited in bandwidth, inhibiting internal hosting.

If program funds from the WLIP were not available, Adams County would see a significant reduction of future products as well as a lack of maintenance of current products

D. Custodial Responsibilities.

1. Briefly identify the land information and data themes for which your county has custodial responsibility. (Ensure that these data are accurately recorded in your GIS inventory profile.)

2. Identify the source of your custodial authority: i.e. Wisconsin Statutes, Administrative Rule, Department of Administration Policy, Inter-governmental Agreement, internal policy, etc.

Adams County Land Records Modernization Plan 2010

3. Identify the land information and data for which your county would like to assume custodial responsibility.

4. Identify the land information and data for which your county will assume custodial responsibility if requested.

Department:

Register of Deeds: Records deeds, mortgages, plat maps, certified survey maps and other related documents (ss59.43); Indexes and scans aforementioned documents into county imaging system (ss59.43); Maintains a tract index of real property. Established per PLSS (ss59.43); Maintains right-of-way plats and transportation project plats (ss84.095); Drainage District specifications ATCP 48.20(4); Records annexations 66.021(8)(a)

County Treasurer: Maintains tax financial information for all tax parcels (ss59.25); Keeps drainage district payment records (ss88.18); Maintains description and ownership information of all real property parcels (ss70.09) and County Internal Policy); Assigns parcel number to track parcel activity (ss70.09); maintains tax rates and special assessments (ss70.09); oversees county addressing system (County Ordinance 59-2006).

GIS Specialist: Maintains data on behalf of other County Departments that have custodial responsibility; maintains metadata (County policy)

Land and Water Conservation: Creates and maintains Farmland Preservation Plans; Implement agricultural performance standards NR 151. Provides technical assistance for Shoreland Protection Ordinance; Implements duties per ss 92; Creates and maintains non-metallic mining reclamation plan NR 135 (ss 295.13). Administers Stormwater Runoff Ordinance 28-2007; Administers Animal Waste Storage Ordinance 33-1999.

Planning and Zoning: Maintains zoning maps for unincorporated areas or areas under county jurisdiction (59.69); Maintains private sanitary sewer site plans (ss 59.69); Maintains information regarding non-metallic mines (ss 295.13); Shoreland Protection Ordinance maps, Wisconsin River Flood Study maps, FEMA FIRM Letters of Map Amendment, Letters of Map Revision, Drainage District records, Building Permit and land improvement records.

County Surveyor: Maintains files of private survey maps (ss 59.45); Maintains information on PLSS section corners including tie and section summary sheets (ss 59.45)

Highway: Maintains pavement maintenance records, signage, traffic code, driveway permits, utility easements, tile casing permits (ss 83)

Emergency Management:

Through the process of preparedness, response, recovery and mitigation, the Adams County Emergency Management Office assists local units of government and agencies in Adams County to develop plans to deal with emergency situations involving natural disasters (such as tornadoes, floods and fires) accidents (such as chemical spills, train derailments or industrial disasters), terrorist attacks or other events that are a threat to life, property and safety.

Emergency Management develops and promulgates off-site plans for facilities within the County that store hazardous chemicals on their premises. Emergency Management coordinates the Local Emergency Planning Committee (LEPC) meetings to ensure protection of the community from harmful and possible life threatening effects of a hazardous material release. This includes developing plans and procedures for responding to hazardous materials incidents and accidents in compliance with the requirements of Title III and the Superfund Amendments and Reauthorization Act of 1986 (SARA), PL 99-499; and Wis. Stat., Sec. 323, Hazardous Substances Information and Emergency Planning.

Sheriff's Department:

Master address street guide (MSAG), dispatch records, accident records, crime records, complaint records, traffic citations (ss 59.27)

E. Framework Data, System Implementation and Statewide Standards.

County land information planning is structured around specific criteria often referred to as Foundational Elements which incorporates Framework Data elements as well as areas of technology implementation and institutional cooperation. For some land information data, state, local or de-facto standards exist and may be in use. For each of the following sections:

- Please discuss key progress or initiatives for each framework data or system element listed.
- Please confirm your adherence to related standards or discuss your plan to maintain or achieve compliance with the standards corresponding to each element.
- Please discuss your plan to assume or maintain custodial responsibility (as applicable).
- Please discuss your long-range plan to maintain dataset currency over time as well as archive historical copies of datasets as appropriate.

1. Geographic Positioning Reference Frameworks

Discuss applicable features:

a. Geodetic control and control networks

The WI-DOT Height Modernization Program within the County is complete. WISCORS stations located east of the County encompass a large area of the County. Stations that would be located west of the County should include the balance of the County. The WISCORS network will be used with GPS hardware and software planned to be purchased using WLIP base budget grant funds. Without these funds, the County would not be able to utilize the network as intended.

b. Public Land Survey System remonumentation and records automation

The Adams County Surveyor's Office completed remonumentation of all Public Land Survey Corners in the spring of 1982. All remonumentation met the requirements of applicable statutes and administrative codes. The County has an ongoing Maintenance Program of USPLSS corners. All corners are maintained on a 5 year rotation. Corners in danger of removal or disturbance are maintained on an as needed basis. The County plans to scan tie sheets and make the images available to the public.

The County's digital representation of the PLSS was built on a County base parcel mapping project which began in the mid 1990's. Consequently the PLSS was built from various data sources and datum's including existing coordinates, traverse methods, GPS, highway right of ways. The polygons have attributes for Town, Range, Section, Municipal ID number, Range directional code, and quarter-quarter code. The system employed is built upon the WLIA's Parcel Geo- Locator Standard and is designed to assist with the generation of the number when used in conjunction with the County parcel fabric.

Confirm your adherence to standards where applicable.

- Standards for Public Land Survey System Corners Corner Remonumentation. See
- Sec. 59.74 & 60.84 Wisc. Stats. and Wis. Admin. Code AE 7.08.
- . PLSS Database Definitions <http://www.wlia.org/resources/standard7.pdf>
- National Standard for Spatial Data Accuracy, FGDC-STD-007.3-1998, <http://www.fgdc.gov/standards/projects/FGDC-standards-projects/accuracy/part3/chapter3>

2. Orthoimagery and Georeferenced Image Base Data

Discuss applicable features:

- a. Photogrammetric base maps
The road centerline and hydrography data layers were derived from the 2005 digital orthophoto.
- b. Digital orthophoto (DOP)

The County acquired 18" black and white imagery as a member of the 2005 Wisconsin Regional Orthophotography Consortium (WROC). The County is participating in the 2010 WROC and is acquiring 12" color imagery. The County uses multiple years of freely available imagery from the USDA National Aerial Imagery Program, made available by the WisconsinView program. No municipalities in Adams County participated in the 2010 WROC to acquire higher resolution imagery, but some did participate with a higher resolution in 2005 WROC.
- c. Digital raster graphic
The County has two representations of USGS topographic map products (Digital Raster Graphics): a seamless mosaic downloaded from the US Forest Service Natural Resources Conservation Service and the Wisconsin DNR enhanced DRGs. The County plans to use the USGS US Topo series of digital topographic maps when they become available
- d. Satellite imagery
Adams County does not use satellite imagery.
- e. Oblique aerial imagery
Adams County does not use oblique aerial imagery.
- f. Historical aerial imagery
Adams County maintains multiple historical aerial photos on the subscription website. Some air photos are only available in hard copy. They may be scanned and made available in the future.

3. Elevation Data Products and Topographic Base Data

Discuss applicable features:

- a. Digital elevation models (DEM)
- b. Digital terrain models
- c. Triangulated irregular networks (TIN)
- d. Contours
- e. LIDAR data
- f. IFSAR data

The USGS National Elevation Dataset is used as the County's digital elevation model. Ten-foot contours have been derived from the NED DEM. Two-foot contours are available near the Wisconsin River, but have not been digitized. The two-foot contours are found on large format hard copy air photos produced as part of a Wisconsin River flood study completed in 1986.

The County was recently awarded a Community Development Block Grant for LIDAR data acquisition and processing. Acquisition is under contract to take place in spring of 2010 and the classified point cloud and derived products are estimated to be delivered in fall of 2010. Derived products include a fifteen-foot resolution DEM, two-foot contours, and a triangulated irregular network. This will be the first high-accuracy elevation mapping of the entire County and the first elevation mapping effort done under the County's direction.

LIDAR-derived map products will meet ASPRS Class II accuracy standards and FEMA flood hazard mapping standards. The current DEM meets USGS NED program standards. Contours derived from this DEM are considered a low-accuracy reference dataset. Two-foot contours near the Wisconsin River were developed to meet or exceed standards defined in NR 129.

LIDAR-derived data products support an effort to revise Federal Emergency Management Agency Flood Insurance Rate Maps. LIDAR data collection and processing is only possible because of the County's participation in the 2010 Wisconsin Regional Orthophotography Consortium and the availability of federal Community Development Block Grant funds related to the 2008 flooding in central Wisconsin. Elevation data may be updated should funding become available.

LIDAR data management and archiving of will require additional computer hardware.

4. Parcel Mapping

Discuss applicable features:

- a. The preparation of parcel property maps that refer boundaries to the public land survey system and are suitable for use by local governmental units for accurate land

Adams County Land Records Modernization Plan 2010

title boundary line or land survey line information.

b. The preparation of property maps that do not refer boundaries to the public land survey system but are suitable for use by local governmental units for planning purposes.

c. Coordinate system used

d. Parcel ID

Adams County maintains property reference maps suitable for planning. Property maps include all mandatory features for reference maps and many requirements of cadastral maps, as described in the March 1999 WLIA Digital parcel Mapping Data Content Standards. Initial parcel mapping is complete and maintenance is ongoing. Unique parcel numbers are assigned by the County Treasurer's Office.

The County does not use a geo-locator parcel number, described in the December 1995 WLIA Parcel Geo-Locator Standard. The standard was developed for a non-graphical system, and as noted in section 5 of the standard, the County uses a graphical parcel management system that replaces a geo-locator code. A geo-locator number can be generated for each parcel if necessary.

All parcel data is stored in the Adams County Wisconsin Coordinate Reference System, defined in Wisconsin Coordinate Reference Systems, Second Edition, published by the State Cartographer's office in 2009.

Confirm your adherence to standards where applicable.

- FGDC's Cadastral Standards
<http://www.nationalcad.org/showdoclist.asp?doctype=1&navsrc=Standards>
- The WLIA's Parcel Geo-locator Standard
<http://www.wlia.org/resources/geoparcels.pdf>
- Local Government standards compliance.
- The WLIA's Digital Parcel Mapping Standard
<http://www.wlia.org/resources/standard6.pdf>

5. Parcel Administration and Assessment Information

Discuss applicable features:

Adams County Land Records Modernization Plan 2010

a. 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.

b. Activities associated with modernizing the use of parcel level information once created from and in support of parcel maps, for example:

Parcel ID

Tax data

Site Address

Owner Name & Address

Description/current document pertaining to parcel

Database relationships link tabular parcel ID, tax data, site address, owner name and address, brief legal descriptions and document reference numbers with the parcel layer. Data is shared between programs within the Register of Deeds Office and Treasurers Office that provide information for updating the tax/assessment information. This information is also exported to update the web map system.

Document imaging – Adams County utilizes an enterprise document imaging system. Documents are stored in TIFF format with a relationship to the unique document number. In 2001 the Register of Deeds Office began scanning daily recorded documents. In addition, documents that were previously stored in microfiche/microfilm were converted into the document imaging system. The images are “hotlinked” from the document indexing system for quick access from many of the land records indexes.

Real estate transactions-Adams County utilizes a document indexing system for indexing real estate transactions. This system contains features that provide information to various other systems such as assessments for easy input. Adams County also utilizes the Wisconsin Electronic Real Estate Transfer Form- Local Government access site in order to input transaction data for parcels requiring an electronic transfer form. This site also allows historical data research.

Easements and restrictions, including conservation easements – Easements and restrictions are not mapped by the County. Documents referencing easements and restrictions are available in the Register of Deeds office.

Adams County Land Records Modernization Plan 2010

Tax exempt status – Adams County includes parcels that are exempt from property taxes in its parcel layer as well as in the assessment database.

Zip codes (including +4) The County does not actively maintain a graphical or database representation of ZIP Codes, but does use a static representation of ZIP Code areas as part of the 911 dispatch system. The County may use the US Census Bureau ZIP Code Tabulation Areas when they are released after the 2010 Census.

Assessment class - The Wisconsin Department of Revenue assessment classifications are included as a part of the parcel assessment database and are available online.

Public lands – Adams County maintains a database and spatial data regarding public lands and private lands with public access. Each year, a paper map of public access lands is created for sale for the general public.

Liens –Adams County utilizes a tract index which allows for consumers to search for specific liens as they relate to parcels.

Evidence of Title- Because Wisconsin is not a Torrens Registration state, Adams County does not provide certificates for evidence of title. Documents such as deeds are available for viewing and purchase.

Adams County uses a relational database system for parcel administrative duties. The system has the ability to track information by Section, Town, Range and municipality number. Other information fields include ownership and billing information, legal descriptions, valuations, and site address. The County has the ability to export this data to meet most requirements. When integrated with the parcel and PLSS GIS data, this system can generate a WLIB style parcel number.

Confirm your adherence to standards where applicable.

- FGDC's Cadastral Standards
<http://www.nationalcad.org/showdoclist.asp?doctype=1&navsrc=Standards>
- The WLIB's Digital Parcel Mapping Standard
<http://www.wlia.org/resources/standard6.pdf> .
- Local government standards compliance.

6. Street/Road Centerlines, Address Ranges and Address Points

Discuss applicable features:

- a. Transportation network (streets, roads highways, railroads)
- b. Rights of way
- c. Centerlines
- d. Address ranges
- e. Site address database
- f. Address point, structure and/or driveway
- g. Road names
- h. Functional class
- i. Places/Landmarks
- j. Integration with the County's/City Master Street Address Guide (MSAG)
- k. Ability to support emergency planning, routing, response and mapping
- l. Ability to support Wireless 911

Confirm your adherence to standards where applicable.

- Local government compliant.
- US Postal Addressing Standards Publication 28

The County maintains a road centerline data layer originally derived from 2005 orthoimagery. The centerlines include road names and address ranges suitable for accurate geocoding and support the E911 dispatch system. Functional class is not recorded as a GIS data layer attribute.

The County GIS system supports emergency planning, routing, response and mapping. The GIS Specialist has attended emergency preparedness exercises and participates in the regional DNR wildland fire incident management team. A laptop with GIS software and data is dedicated to the support of emergency management and response.

Site addresses are mapped at driveways and are recorded in the tax and assessment database. The WDNR recently completed structure point and driveway datasets that the County will maintain. The address database is loosely integrated with the Master Street Address Guide.

Bike paths, sidewalks and railways are also mapped. Road rights of way are mapped, but are often poorly documented. Multiple categories of named places and landmarks are mapped.

The datasets and systems described above follow County policy and US Postal Service addressing standards.

7. Hydrography, Hydrology and Wetlands Mapping

Discuss applicable features:

- a. Hydrography
- b. Watersheds
- c. Hydrogeology
- d. Impacts on the environment (e.g. groundwater contamination, storm water)
- e. Wetlands mapping activities

Confirm your adherence to standards where applicable.

- Wisc. DNR Wetlands Map (s. 23.32, Wis. Stats.)

The County uses multiple hydrography data sources, including the USGS National Hydrography Dataset, the WDNR 24K Hydrography Geodatabase and a County dataset derived from 2005 orthoimagery. The County uses multiple watershed datasets, including WDNR 24K watersheds and the USDA Natural Resources Conservation Service Watershed Boundary Dataset.

The Adams County University of Wisconsin Extension Agriculture Agent is overseeing an investigation of ground water quality and availability using residential water analysis results compiled by the W DNR and University of Wisconsin - Stevens Point. The GIS Specialist and a high school intern are assisting with the project.

The County Health Department provides free water testing to households considered vulnerable to the affects of nitrates in drinking water. Samples are analyzed for a variety of contaminants by the Wisconsin State Laboratory of Hygiene. The results are compiled by the WDNR and mapped by the Wisconsin Division of Public Health.

The County does not maintain maps of contaminants, wetlands, or hydrogeology, but relies on state, federal and university sources when necessary. Wetlands mapping is not done by the County. The County cooperates with the Army Corps of Engineers, the Natural Resources Conservation Service and the WDNR when questions about wetland status arise.

8. Soils Mapping, Land Cover and other Natural Resource Data

Discuss applicable features:

- a. Soils mapping activities
- b. Land cover
- c. Forests
- d. Geology
- e. Hydrogeology

Adams County Land Records Modernization Plan 2010

- f. Non-metallic mining
- g. Endangered resources
- h. Impacts on the environment (e.g. air emissions; soil contaminants; coastal stability)

The County uses USDA-NRCS soils data. Land cover may be compiled when needed using current orthoimagery and LIDAR data. Forested lands are included in the historic land use datasets. The County uses the WDNR Managed Forest Law / Forest Crop Law and the USGS GAP Analysis Wisconsin Stewardship datasets. The County uses Wisconsin bedrock geology and Adams County Pleistocene Geology published by the Wisconsin Geological and Natural History Survey.

The County plans to map non-metallic mining sites and reclaimed areas. This information will be used with a planned permitting application. Documents for registering non-metallic mining can be recorded in the Register of Deeds Office. The County does not maintain datasets describing endangered resources or impacts on the environment but relies on other state and federal sources for the information when necessary.

9. Land Use Mapping

Discuss applicable features:

- a. Mapping of existing land use.
- b. Mapping of planned land use

Confirm your adherence to standards where applicable.

- Local government compliant

The Adams County Comprehensive Plan was completed and adopted in 2006. The Plan includes various maps including: Existing land use, future land use, soil, wetland, floodplain. Each Town, the City of Adams, the City of Wisconsin Dells and the Village of Friendship are developing their own individual plans. These individual plans were combined into a County-wide Plan. All of the Plans are being developed pursuant to and in compliance with ss 66.1001. The project was funded by the Dept. of Administration (grant) and Adams County. The consultant for the Town and County Comprehensive Plans was the North Central Wisconsin Regional Planning Commission. It is anticipated that each municipality will continue to update their plan as needed and provide the information to the county when requested.

The County uses the WI Department of Revenue Land Use Classification codes in the tax and assessment software and this information is exported for use on the county land records website.

10. Zoning Mapping

Discuss applicable features:

a. Zoning Districts

Nine towns have adopted county zoning. Zoning maps are being developed and updated as rezoning requests are approved. Adams County is in the process of obtaining a permit application program that will link with the county GIS. It is also anticipated that zoning data and/or maps will be available online either through the public access site or through the subscription site.

b. Shorelands

All 17 towns are under the Adams County Shoreland Protection Ordinance. Shoreland zoning maps were originally developed for Adams County around 1969-1970. Sensitive environmental areas were zoned as to be essentially unbuildable. Maps are updated to reflect changes to the Ordinance.

c. Floodplains and floodways

Adams County adopted new Flood Insurance Rate Maps in May of 2008 and is in the process of requesting an update to those maps after completing a planned LiDAR project. FEMA GIS data layers are used in county mapping when necessary.

d. Environmental corridors – NA

e. Burial sites

The Adams County Register of Deeds is currently working with Burial Sites Preservation at the Wisconsin Historical Society to catalog each burial site, single and multiple, so they may be mapped in the future. The Register of Deeds has created a list of burial locations that includes parcel numbers which was incorporated into a dataset recently compiled by Wisconsin North Central Region Planning Commission.

f. Archeological sites - NA

g. Historic/cultural sites - NA

Confirm your adherence to standards where applicable.

- Zoning Mapping Standards (local government compliant)
- DNR Floodplain Zoning NR 115/117

11. Election and Administrative Boundary System

Discuss application features:

a. Election (voting district) boundaries, precincts, wards, supervisory, voting places etc)

Adams County maintains supervisory districts and wards. Maps showing districts and address points are printed for use on Election Day at local election sites

b. Legislative districts

Adams County uses state and federal legislative districts as published by the authoritative sources.

c. Utility districts (.e.g. water, sanitary, electric, etc.) - NA

d. School districts

Adams County maintains a school district data layer derived from tax records.

e. Tax incremental financing districts - NA

f. Agency administrative districts and Zip Codes - NA

g. Census geographies:

Blocks

Block groups

Tracts

Designated places

Urban areas

Traffic analysis zones

Adams County uses Census geographies as published by the US Census Bureau.

h. Civil division boundaries (Towns, City, Villages etc)

Adams County updates civil division boundaries after annexations or other changes are recorded.

i. Public Administered Lands, ie parks, forests etc

A County lands data layer has been produced for departmental use.

j. Native American lands

Adams County does not currently identify Native American Lands. It is anticipated that there are fewer than 5 parcels in Adams County.

Adams County Land Records Modernization Plan 2010

k. County boundaries

Adams County uses the statewide county boundary dataset published by WDNR.

l. State outline

Adams County uses the state outline dataset published by WDNR.

m. Lake districts

Lake Districts are identified using the tax roll database and mapped by joining that information to the GIS parcel dataset.

Confirm your adherence to standards where applicable.

- Local government compliant

12. Critical Infrastructure and Facilities Management

Discuss applicable features:

- a. Emergency service districts
- b. 911 call center service areas & center locations
- c. Fire/Police Districts
- d. Fire/Police Stations
- e. Hospitals and healthcare facilities
- f. Government facilities
- g. Utilities - not districts (e.g. gas, electric, sanitary, water, phone, telecommunications etc.)
- h. Parks & Recreational Trails (Ice Age/ bicycle/ hiking/ snowmobile/ horseback routing)
- i. Transit systems
- j. Bridges, culverts, traffic road signs
- k. Airports and airfields
- l. Harbors
- m. Boat landings
- n. Hazardous materials sites; LUST (Leaking Underground Storage Tank) etc.
- o. Landfills

First responder, fire, police and EMS districts are maintained to support the Sheriff's Department dispatch system. 911 call center service areas and dispatch center locations are not mapped because all calls from within the County, except for the City of Wisconsin Dells, are dispatched through the Sheriff's Department in the County Courthouse.

The Highway Department maintains a database of bridges, culverts and traffic signs. A data collection system that uses field computers with GPS receivers is being implemented.

The Emergency Management department had hospitals, government facilities, police stations, fire stations, and airports and airfields mapped as part of the recently adopted All Hazards Mitigation Plan. These datasets will be updated and maintained.

Landfills, including those that are no longer in use, are mapped, as are electric transmission lines and an oil pipeline. Parks, recreational trails and boat landings are also mapped

13. Database Design and System Implementation

Discuss applicable features:

a. Design evaluation

The County is in the process of redesigning its geodatabase to eliminate redundancy, improve documentation and simplify its organization. The ESRI Land Parcel Data model has been in use but never fully implemented because of its complexity. The County plans to implement parts of the ESRI Local Government data model that suit our needs

The County considers database design issues from an enterprise viewpoint, especially as departments investigate new technologies. Many of these systems overlap in terms of information content so the County is trying to acquire systems that are compatible in as many areas as possible.

b. Project approach

The County has changed their approach to the acquisition of new system software to make that the new systems are standards compliant, open and can be made to interact with other database systems currently deployed. The County will also work with current legacy system vendors to improve the ability to integrate systems together and with GIS. Changes to the design of the GIS database are being made with County-wide systems integration in mind.

c. Timeline

In general, timelines are dependent on budget limitations by various departments. These projects require large efforts and the County has only one IT support person. Consequently the County has relied on consultant assistance for many projects.

Two major projects are starting. The Highway department is beginning to use field computers with GPS receivers and cameras to maintain an existing asset management database. The Planning and Zoning department will soon begin to use a permit management system that includes parcel numbers as a key value for integration with other county databases.

d. Metadata policies

The County has developed FGDC compliant metadata for parcels as per WLIB requirements and intends to complete metadata for other data layers in the near future. Most data layers have some metadata.

Adams County Land Records Modernization Plan 2010

e. Security/Privacy policies

Adams County Management Information Systems maintains the security of most GIS and Land Records systems. The ArcIMS server is maintained by outside vendor. The county computer network is shielded from outside intrusion by a firewall.

Adams County adheres to the Wisconsin Open Records Law and complies with state statutes for access to restricted records. The county continues to monitor the industry and public concerns related to privacy and data distribution

f. Implementation and maintenance strategy

Although Adams County has not developed an implementation strategy, the county determines implementation by user need, workflow, business need and costs. The county performs in-house testing by departments who frequently access land records.

g. Data quality management

Adams County identifies data quality problems through use by various county departments and the public. Errors are reported to the various custodial departments. Error reports are run periodically to identify errors between databases.

h. Needs assessment

The Adams County Land Information Committee discusses and prioritizes needs. The Committee is made up of county departments that use land records and includes a member of the county board. The Land Information Officer is in contact with land records customers on a daily basis to establish or refine user needs. Land information customers include all departments in Adams County, state and local government and the public. Adams County will follow Wisconsin Act 314 when restructuring this committee.

i. Data structure and format (e.g. topology)

GIS datasets are stored in an ESRI Personal SDE geodatabase located on the GIS workstation. Exports from this authoritative database are made available to other users on the County network in ESRI file geodatabase and shapefile format. There are known topological errors in the Adams County GIS datasets. The problems are a legacy of the CAD data lineage and low level editing. Topological errors are corrected when they are observed.

j. GIS data models (database & workflows)

Datasets related to land parcels follow elements of the ESRI land parcel data model. Data layers that support the Sheriff's dispatch system are determined by the requirements of the dispatch software. Workflows that support the Sheriff's dispatch system are well documented but documentation of other workflows is scant.

k. Data dictionary

The County has a list of all data layers stored in the primary geodatabase that includes schema and metadata information. However, metadata is minimal for many of the data layers.

l. Coding schema - NA

Adams County Land Records Modernization Plan 2010

m. Transaction management

Adams County relies on underlying database implementations of transaction management. Microsoft SQL Server is used in land records applications.

n. Organizational information flows

Documents that create land information are recorded in the Adams County Register of Deeds Office. This data is made available to any department that requests to be included on the land records management systems through public access terminals and available online. Certain data fields are also shared between departments. It is anticipated that Adams County will review future land records management software to improve organizational workflow.

o. Data Conversion

GIS data format conversion is performed when necessary. Many formats are supported. Data can be extracted from tabular databases in a variety of formats

p. Ability to integrate with other databases and information systems (vertical and horizontal)

The tax roll, GIS, and document databases are well integrated. Key columns are maintained across the databases and joins can be performed when necessary. Databases maintained by single county departments (Highway, Solid Waste, etc.) are less well integrated with the primary land records databases. As these department-specific databases are developed or changed, managers are encouraged to identify and maintain key columns that allow joins to land records data.

Confirm your adherence to standards where applicable.

- GIS Data Exchange Between Wisconsin Public Agencies, WLIA, 1996
- <http://www.wlia.org/resources/standard5.pdf>

F. Public Access

Discuss applicable features:

a. Use of technology to facilitate efficient access (e.g. Internet, query systems, DVD/CD).

Adams County has several on-site public access terminals available to the public for searching land information databases. These terminals are located in the Register of Deeds Office. The County also maintains an internet site for remote access to property records and a web map. It is anticipated that a web map with additional features will be available by subscription in the near future. Many departments offer access to hard copy records.

Adams County Land Records Modernization Plan 2010

b. Use of 3rd party technology for access (e.g., GIO Repository, Google, offsite hosting, The County hopes to participate in the GIO Repository when it is available (see above). Third party hosting is used for the real estate document, tax and assessment, and GIS public websites.

c. Data sharing policies (copyright, licensing, fees etc).

Adams County has developed a standard licensing agreement. Adams County will not process orders for licensed data until receipt of the signed license agreement and payment of fees. The county has established a base fee structure (attached). Adams County also utilizes a data share agreement when appropriate.

d. Open access to data in existing format.

Adams County adheres to the Wisconsin Open Records Law for access to land records. Data is made available in its existing format unless negotiated under a separate agreement to adequately compensate the county for customized services

e. Subscription-based or public-facing web services. – rechecking this for wording

The County offers public-facing land records web sites providing real estate documents, tax and assessment information, and a map viewer. A subscription map viewer is under development.

f. Optional production of customized data on cost-recovery or other basis.

The county produces customized data and follows a base fee structure, plus labor costs.

g. Internet accessibility (ADA compliance, security)

Adams County would be better served by implementing software design that improves access for people of all abilities. Adams County is also planning for compliance with Wisconsin Act 314 to redact any possible social security numbers that may be viewable on the internet.

h. System security.

Adams County Management Information Systems maintains the security and back-up systems for all GIS and Land Records servers maintained by Adams County. Outside access to the county computer network is shielded from outside intrusion by firewall. Because the land records website is a duplication of the county land records system, users are not accessing a live database. The website is considered an additional backup if the in house systems are not available.

i. Privacy policies.

Adams County adheres to the Wisconsin Open Records Law and complies with state statutes regarding the same. The county monitors state and federal legislation regarding privacy and distribution of data. Adams County will adhere to Wisconsin Act 314 which requires social security numbers to not be viewable for documents online.

Adams County Land Records Modernization Plan 2010

j. Use of \$2 fee designated for land information and housing data Sec. 59.72 (5)(b)3.

Adams County uses these funds to support the continued development and maintenance of land records websites.

Confirm your adherence to standards where applicable.

- GIS Data Exchange Between Wisconsin Public Agencies, WLIA, 1996
- <http://www.wlia.org/resources/standard5.pdf>
- State Open Records Law and federal Freedom of Information Act

G. Integration and Cooperation

Wisconsin Administrative Code, Chapter Adm. 47 defines integration as the coordination of land records modernization to ensure that land information can be shared, distributed and used within and between government at all levels, the private sector and citizens. Cooperation is defined as the explicit relationships within and between public agencies, and between public entities and private entities to share land information or collaboratively pursue land records modernization. These cooperative relationships may be formal or informal, a single instance of exchange or an ongoing association.

Please describe the following:

a. Formal data sharing agreements (memorandums of understanding, etc.)

Adams County has several formal data sharing agreements in place including one with the Wisconsin Rapids DNR unit for data to use in emergency planning and response. In exchange, the DNR exports data of the affected area for spreadsheets and forms to be used for damage assessments.

b. Formal or informal data maintenance agreements between departments/agencies.

The GIS Department maintains data layers for several departments. No formal agreement exists, but the Adams County Land Information Committee has adopted a "Best Practices" document regarding data development and maintenance.

c. Cooperative arrangements (e.g. agencies; libraries; schools; RPCs; utilities; privates).

None, though the County would be open to such agreements.

d. Consortia (e.g. inter-county, regional).

Adams County participates in the Wisconsin Regional Orthophotography Consortium (WROC). WROC aids the acquisition of high quality and cost effective remote sensing products. Without WROC, acquisition of these products would be much more expensive and require much more staff time. The County is pursuing reciprocal, ongoing data sharing agreements with bordering counties, primarily for use in emergency planning and response.

Adams County Land Records Modernization Plan 2010

e. Collaborative arrangements (e.g. sharing of: local/state staff and budgets; technical assistance; peer review; collegial plan preparation; common help desk; bartering and mentoring etc.)

Adams County GIS utilizes high school student interns for the benefit of both the county and the students. We will continue to review such internship opportunities. Adams County also participates in the Central Wisconsin GIS User Group to learn of opportunities in neighboring communities and counties.

f. Statutory relationships among counties and state agencies.

1. What integrative/cooperative relationships would your county like to develop?
2. What potential partners and mutual projects does your county plan to pursue?
3. What data would be shared and used in both of the above?
4. How does your county allow for participation and coordinate funding allocations so that all departments benefit from the land information program?

At regular monthly meetings during roundtable discussion, department heads are provided with information regarding the availability of services of the GIS Specialist and the Land Information Officer. In addition, the GIS Specialist and the Land Information Officer offer a presentation to the county board of supervisors at a monthly board meeting. Projects for various departments are reviewed to determine if data has already been developed, how existing data can be used in a project, or if new data must be developed to meet departmental needs.

Funding from the land information program has provided technical support to departments that use land records. This allows departments to seek specialized software that meets their needs, and for standard GIS project implementations.

5. How does your county allow for participation so that municipalities and other agencies in the region benefit from the land information program?

Very few municipalities in Adams County maintain websites, but those that do have been made aware of the Adams County Land Records website so that they can refer their users to the County resource. Municipalities, utilities and businesses have been invited to participate in the Wisconsin Regional Orthophotography Consortium.

Training on GIS is provided when requested.

The Land information Officer participates in the Adams County Towns Association meetings and informs municipalities of County projects. This communication makes them aware of available resources that are when they are preparing for municipal projects.

H. Communication, Education, Training and Facilitated Technical Assistance

Discuss applicable features:

a. Documentation of county data, models and processes.

Documentation is scant for most GIS processes, except those related to the emergency dispatch system. GIS data models are documented, but metadata is minimal for many data

Adams County Land Records Modernization Plan 2010

layers. Tax and assessment information and Document Indexing data is stored in a database with a proprietary and poorly documented data model.

b. Resources available.

Training in the use of GIS and other land records access systems is available to County staff on an as-needed basis. Users of public access terminals are provided with written instructions and with personal assistance when necessary. Documents and presentations are being developed by the GIS Specialist to provide County staff with GIS and GPS training.

c. Identification of customer needs.

Frequent users of land information are invited to participate in evaluating needs. Users are also valuable in assisting with verification review of image and index data. Adams County will be reviewing the makeup of the land information committee to comply with Wisconsin Act 314.

d. Coordination of education/training with agencies, associations and educational institutions.

None at this time

e. Use of technology to facilitate education and training.

There is no formal development of education and training at this time. Online help is provided for the land records web mapping sites. Internet resources, including web casts, blogs, and digital publications are frequently used sources of education and training.

f. Use of, or plan to participate in, clearinghouse/repository and land information technical assistance listserv.

Adams County participates in the land information technical assistance listserv. The County hopes to participate in the state data repository.

g. Use of land information officer education and training funds.

Adams County uses education and training funds to attend seminars and workshops offered by organizations such as the Wisconsin Land Information Association.

Confirm your adherence to standards where applicable.

I. Administrative Standards Not Associated With Foundational Elements

Plans represent an agreement between the county and the Wisconsin Department of Administration (DOA). This agreement is intended to effectuate the objectives of the Program as embodied in the enabling legislation. In order for a plan to be acceptable to the DOA, the DOA and the county agree and consent as follows below. If applicable, discuss any plans, problems, issues, or concerns relative to these agreements.

Adams County Land Records Modernization Plan 2010

1. The county agrees to observe and follow the statutes relating to the Wisconsin Land Information Program and other relevant statutes.
2. The county agrees to permit the Wisconsin Department of Administration access to books, records and projects for inspection and audit.
3. The county agrees to complete the GIS Inventory Survey (survey required annually by WLIP).
Adams County would like the reporting requirements of Wisconsin Act 314 to be included in the Wisconsin GIS Inventory Survey
4. The county agrees to update the plan every 5 years and in the interim if the plan should change.
5. Development and implementation of an acceptable plan confers certain benefits on local government within a county, including continued eligibility for Program funding. A peer review process will be used to assess plan acceptability by the land information community.

APPENDICIS:

- A) Data Fees
- B) License Agreement
- C) Data Sharing Agreement

DATA REQUEST FORM—DIGITAL DATA

Date: _____
 Name: _____ Daytime Phone No: _____
 Company or Organization: _____ Fax No: _____
 Address: _____ Email: _____
 City, State, Zip: _____

***PREPAYMENT IS REQUIRED**

***Signed License Agreement Required with Order**

*Allow two weeks for completion of data request, dependant on staff availability.

Date desired: _____

All Geographical Digital Data is provided in the ESRI 9.1 Geodatabase format. Format conversions are the responsibility of the data requestor. Prices for all digital datasets are listed below. If item requested is not on the list, it is considered a special request and will be charged at the custom product rate of \$40 per half hour work, with a minimum of charge of \$40, plus the cost of materials, and shipping. Please contact the Land Information Officer, Jodi Helgeson (jhelgeson@co.adams.wi.us, 608-339-4206) or Tyler Grosshuesch (tyler.grosshuesch@co.adams.wi.us, 608-339-4546), about the availability of customizable products. Property Assessment Data should be ordered directly from the Real Property Lister, Sue Theisen (stheisen@co.adams.wi.us 608-339-4525).

Geographic Data Set	Feature Class/Layer	Type	Source	Order/Cost
Complete GDB	Parcels & Map Annotation, Address Points, Road Centerlines (Geocoded) & ROW, PLSS & MCD Boundaries	Polygon, Line, Point	Adams County LIO	Countywide (\$850) <input type="checkbox"/>
	Land Use, Natural Features (Wetlands, Watersheds, etc.), Miscellaneous Features (School Districts, etc.)	Polygon, Line, Point	NCWRPC	Included w/complete GDB
	Soils	Polygon	NRCS	Included w/complete GDB
Individual Layers	Parcels	Polygon	Adams County LIO	Countywide (\$600) <input type="checkbox"/> MCD (\$100) _____ <input type="checkbox"/>
	Address Points	Point	Adams County LIO	Countywide (\$200) <input type="checkbox"/> MCD (\$50) _____ <input type="checkbox"/>
	Road Centerlines (Geocoded)	Line	Adams County LIO	Countywide (\$200) <input type="checkbox"/>
1992 Orthophotos	3' black & white	MrSID	National Aerial Photography Program	Countywide (\$50) <input type="checkbox"/>
2005 Orthophotos	18" black & white	MrSID	Ayres Associates	Countywide (\$750) <input type="checkbox"/> MCD (\$50) _____ <input type="checkbox"/>

Product(s) Total \$ _____
 Shipping per order (If Necessary) - \$5.00
 Sales Tax (5.5%)\$ _____
ORDER TOTAL (Product Total + Shipping) \$ _____

Return Order Form and Payment to: Jodi Helgeson
 Adams County Land Information Officer
 PO Box 219
 Friendship WI 53934

License Agreement for Adams County Wisconsin Digital Geographic Data Sets

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