

Price County



Land Records Modernization and Integration Plan 2011 – 2015

PRICE COUNTY

LAND RECORDS MODERNIZATION AND INTEGRATION PLAN

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I. EXECUTIVE SUMMARY

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C. Summary of Plan

This plan is an update to the Price County Land Records Modernization and Integration Plan required by WI. Stat. 5972 and the Wisconsin Land Information Board (WLIB). The format and content of our Plan is based upon the WLIP's Uniform Instruction For Preparing County Land Information Plans dated December 2009.

To date Price County has through Land Modernization established a framework and county parcel mapping with three major elements to work towards. Our first priority is to continue establishing land corner monuments and ground control. Our second priority is digital mapping and our third priority is to establish more documents digitally. We plan to continue further refinement and enhancement of the interactive mapping application of the County's public land information website, based upon the Countywide GIS. Yet another focus will be to improve accessibility to land records for use by the general public and County Departments, to streamline workflows, enhance performance, and integrate data needs. To achieve these goals Price County uses contractual services when needed. The County prioritized areas that are in need for more survey data via private surveyors. Price County continues a contractual agreement with a private company to continue our G.I.S. web site and its updates (see D).

Without the benefit from this program Price County acknowledges it would not be as far along with modernizing land records as we are. We would hope to continue to participate in this program.

D& E. Website

Price County's land information website is: <http://www.co.price.wi.us> . An interactive mapping & parcel data applications are accessible from this site. Both the GIS mapping & parcel assessment/tax data base are interactive so a person can toggle back & forth. The GIS web site is hosted by Applied Data Consultants (ADC), the parcel assessment/tax data base is hosted by Price County. At this time no Price County municipalities maintain a GIS mapping website.

II. LAND INFORMATION MODERNIZATION AND INTEGRATION PLAN

A. Goals and Objectives

1. Price County's goal is to continue development, implementation and maintenance of a modern GIS that is horizontally and vertically integrated and provides useful, quality data for its citizens, agencies, businesses, and other users of land information in an accurate, equitable and efficient manner. Throughout this Plan, we will attempt to discuss and highlight our work to achieve these objectives

Our objectives are to:

- ◆ Provide centralized land records access.
- ◆ Improve cost effectiveness and timeliness of service.
- ◆ Coordinate modernization activities and reduce duplication between departments.
- ◆ Improve land records accuracy and accessibility.
- ◆ Ensure that land information is geographically referenced and available in an industry-standard format for use by others.
- ◆ To enable multiple County departments to receive education to create and maintain GIS

layers using their data.

Internal and external data and information needs of Price County are:

- ◆ Providing ground control with GPS and monumentation which makes survey work more accessible to private individuals.
- ◆ Remonumentation and acquisition of geodetic control on Public Land Survey System (PLSS) section and quarter corners for the entire County. This will take several years.
- ◆ Maintain the digital parcel maps and all County GIS datasets.
- ◆ Assisting with implementation of the 911 public safety map layers.
- ◆ Obtaining updated digital orthophotography on continuing basis.
- ◆ Digitize Land records of all types; make them available in a digital format and accessible to the public through the County web site or other services.
- ◆ Maintenance of existing County lands information and creation and maintenance of additional County lands information, integrated with GIS.
- ◆ Obtaining digital data elevation (contours) when time and money is available.
- ◆ Obtaining digital data on soils when time and money is available.

The timeline for meeting goals and objectives is partially dependent upon staffing, but is solely reliant upon the continuation of the WLIP grant program, the amount of retained fees for the County's land records fund and monies received from the sale of the Price County Plat Book. Price County Land Modernization Program is NOT on the tax levy.

Price County has need of PLSS corner control. The County at this time contracts this out on a priority basis, but is constrained by time and budget. Corner remonumentation to-date has been incorporated into the County parcel base map, which greatly increases accuracy. This is essential, as parcels serves as the base map for the County's GIS.

Price County's data is referenced to the Wisconsin Price County Coordinate System, which is mathematically relatable to the North American Datum (NAD)83(91) and therefore can be geographically referenced for use by others.

Price County has a limited part-time GIS person who performs most of the creation and maintenance of the County shape files. The updates to the County Base Map are performed by the County Real Property Lister and GIS person. Price County has also adopted procedures for maintaining address assignments throughout the county and maintains contacts with the United States Postal Services (USPS), 911 centers, utility providers, census agencies, parcel delivery services and others that rely on current and accurate addressing. These established procedures are performed daily to update, correct and maintain GIS datasets and other land records as needed. These activities will continue in the future. Price

County will also use WLIP Grant Funds to support other selected projects when needed.

2. Price County is currently using, AutoCAD and ESRI®'s ArcGIS® software and subscribes to their maintenance programs to ensure that the County is using the most up-to-date versions. This software is also used by the County's GIS consultant, Applied Data Consultants (ADC), allowing the transfer and integration of data to the GIS website created and hosted by ADC. All tabular land records data resides on a Microsoft Windows 2003 Server. The GIS database design incorporates key fields, which are used to tie the two systems together. Metadata is either maintained or planned to be created for each layer in the GIS system.

B. Progress Report on Ongoing Activities

- ◆ Parcel mapping has been completed for the entire county. The parcel base map has been referenced to the Price County Coordinate System. As increased geodetic control becomes available, it is used to further refine the map and increase accuracy.
- ◆ PLSS corner remonumentation continues. Additionally, the County Surveyor urges local surveyors to file maps previously completed and offers incentives for surveyors to assist the County in replacing lost or obliterated corners. Such collaborative effort to gather this information improves accuracy of the parcel dataset, the base map of the County's GIS, and alleviates the costly burden of remonumentation solely from the taxpayers of Price County. Furthermore, use of a survey-grade Global Positioning System (GPS) unit has saved time during remonumentation and has enabled the acquisition of geodetic control which is then incorporated into the parcel maps.
- ◆ In 1998 Price County Land Modernization Committee, with the digital data was able to produce our first plat book for resale. We have been producing Price County Plat Books on a 2 – 3 year rotation, with a new one due out in September 2011.
- ◆ The Register of Deeds Office implemented "Paper Clip" software imaging system for land records documents. Along with scanning the daily recordings, the Register of Deeds Office has backscanned older documents and is looking into backscanning more documents when money is available and when time allows. Abstractors, title insurance companies, and any other interested businesses, agencies, and the general public have access to the document index and images via three (3) public terminals in the Register of Deeds Office.
- ◆ Price County acquired a digitized format of our wetlands from the WI DNR.
- ◆ Create and/or update various other base map datasets that are incorporated into our GIS.
- ◆ Price County has assigned each parcel with the WLIP's PIN. This unique number will provide positional information about the parcel it describes, regardless of GIS. Price County also maintains a secondary pin which can be found on each parcel which links the tabular data with the parcel base map. Price County will continue using both pins for retrieval of tax records and searching old parcel information.

C. New Initiatives

1. Proposed Projects

(All projects are subject to continued retained fees, grants and staff workload that may affect the timeline to start and complete projects.)

◆ Parcel Mapping Maintenance

Price County has completed a countywide digital parcel layer. Maintaining this remains a priority for the county. The parcel layer contains positional and tabular inaccuracies that need to be corrected. As remonumentation of PLSS corners progress and more existing corners are “tied-in” with GPS more inaccuracies will be cleaned up for a more accurate bas map. By identifying the gaps and overlaps on the map, flags individuals of an issue that then gets cleaned up.

◆ Obtaining Digital Orthophotography

Price County partnered with the Wisconsin Regional Orthophotography Consortium (WROC) in 2010 to obtain color digital orthophotography at a reasonable cost.

◆ Add datasets and attributes to the Countywide GIS

To support further refinement, enhancement, and capabilities of the interactive mapping application of Price County’s public land information website, attributes will be added to existing datasets of, and additional datasets compiled or created for, the Countywide GIS. Moreover, it is important for the County to have the resources (staff and funding) to regularly update land information and spatial data of all kinds and to support its distribution to the public (regular upgrades of software, hardware, and support maintenance agreements).

◆ Microfiche/Paper Documents to Digital Conversion

The Price County Register of Deeds, Zoning Department and County Treasurers Offices, will further pursue the automation of their archived land records by converting records stored on microfiche and paper to digital format.

◆ Emergency Government

Price County will continue to look for ways to assist in the efforts of emergency services agencies. Data layers indicate the location of emergency shelters, hazardous materials, ambulance service areas, updating road centerlines, etc. that would benefit the County.

◆ Census

Price County will provide updates to the Census Bureau as requested and assist the

County Clerk with future redistricting mapping.

◆ **Flood Zone mapping**

Price County would be interested in updating the flood zone maps if there is a significant funding contribution from State or Federal agencies.

◆ **Hardware/Software upgrades**

Price County will upgrade its GIS hardware/software as needed and acquired new when/if our needs assessment determines it appropriate.

◆ **Departmental Requests for Data Creation/Maintenance**

Price County Create/maintain GIS datasets for various County departments as required.

◆ **Staffing**

Price County will continue to evaluate its staffing needs as data sets are created, applications expand and maintenance responsibilities increase.

2. Assistance Requested

- a. Price County has demonstrated over the years that it has secured the technical assistance when needed to carry out our plan. The County has sought agencies or consultants prior to implementing projects and will continue to do so for new initiatives. Additional assistance will continue to be acquired from meetings, training workshops and seminars. The County has Internet connectivity and will connect to the Wisconsin Land Information Program (WLIP) Internet Land Information Clearinghouse List Server as needed. Additionally, the County will obtain technical assistance as needed as staff participation allows and from the private sector.
- b. Price County plans to use retained fees and the WLIP's grant program to fund planned projects. We will continue to pursue other grant opportunities outside of the WLIP as needed. Price has never received tax levy moneys. All our projects have been funded with retained fees directly or with the help of the WLIP' grant program. The County is always open to other funding opportunities that may arise. Price County feels it is imperative that the WLIP continues so the retained fees and grants are available for ongoing and future projects. The increase in land records fees (flat fee) will help in protecting our investment in the land records system and will help fund future activities. The County also feels it is important for the DOA to ensure the program continues to be focused on creation and maintenance of land information data sets to support all land information uses not just a select few. The County also used some of the fees retained from sales of the Price County plat book.
- c. Price County intends to continue using the services of a GIS consulting firm, Applied Data Consultants (ADC), to provide access to county land information on our GIS website as previously mentioned. This web site is a free service offered to the public that

allows users to access many different GIS data layers. We update the GIS information on a weekly basis and the land owner tax/assessment data on a daily basis and will continue to do so in the future. The County is very concerned with legislative efforts that would restrict access to these sites. The Land Information Committee agreed to allow landowners names to be searchable and accessible on the Internet. The County will strive to keep this information free and accessible on the Internet and will comply with any laws that may be passed in the future affecting such use.

- d. Price County will be willing to participate in a statewide GIS repository when one is made available.
- e. Price County will continue to follow County ordinances and administrative rules for procurement of products or services necessary for land records modernization.

3. Problems Encountered.

We have successfully dealt with unanticipated problems as they occurred. The County believes it is apparent that any participation precipitates rewards. We would anticipate problems meeting our goals if WLIP funds were to disappear or be directed toward projects not related to our Plan. At this time, we are not aware of other problems that may prevent us from proceeding with this Plan, however County remains concerned about the State budget situation and potential legislation that may have a negative impact on our operations.

D. Custodial Responsibilities

Price County custodial responsibilities are established by state statute and/or county ordinance as follows.

1. **Register of Deeds** – Implement the Land Information Plan. Record and index real estate documents; file and index plat maps, certified survey maps, certified corners, and other related documents. Create and maintain digital copies of all real estate documents as they are recorded or filed. Maintain a tract index of real property.

Real Property Lister – Maintain description and ownership information on all parcels; maintain assessed valuations and classifications of real estate and personal property; maintain tax rates and special assessment information; and information on school and other special district codes. Maintain and update digital parcel maps; oversee interactive mapping application of the County’s public land information website. Maintain the County plat book. Maintain GIS address database.

County Surveyor – Archive private survey maps; maintain information on Price County High Accuracy Reference Network (HARN) densification. Maintain information on PLSS corners including tie sheets and section summaries.

Zoning Administrator – Maintain and archive private sanitary system site plans; maintain permits database. Retain GPS readings on all site addresses. Maintain Uniform County Address Ordinance along with land subdivisions/platting.

Treasurer – Maintain tax information, including payments, for all parcels.

Highway Commissioner – File rights-of-way plats and construction plans, keep a sign inventory.

Forester – Creation & maintenance of County recreation trail maps. Maintain data for forest roads, invasive species, boat landings, wildlife openings forest stands, ATV trails and other recreational trails. Establish and administer timber sales and revenues. Survey County Forest Lands as money becomes available.

Emergency Management Coordinator – Maintain the comprehensive Price County Emergency Operations Plan (EOP) as well as numerous other emergency response plans that could be listed in detail if necessary.

Information Technology Department – Maintain the servers, network and workstations required for entering, storing and retrieving land records data.

Sheriff's Department – Maintain E911 related data.

Land Conservation – File soils maps.

4. It is possible Price County would accept custodial responsibility for additional data if necessary and requested.

E. Framework Data, System Implementation and Statewide Standards

1. Geographic Positioning Reference Frameworks

a. Geodetic control and control networks – In 1995 Price County completed geodetic densification from stations within the Wisconsin High Accuracy Reference Network (HARN). The network consist 25 - 1 & 2 ppm stations which were established using the 'Guidelines to Support Densification of the Wisc High Accuracy Reference Network (HARN) using Global Positioning System (GPS) Technology' standards specifications which were current at that time. Coordinate values are available in Price County, State Plane and Latitude and Longitude. The County has the custodial responsibility for the densified control stations. An additional 82 10 ppm stations will be established when funding becomes available.

We plan on using the existing NGS and USGS vertical network control. Any new stations set by the County would adhere to Third order standards.

b. Public Land Survey System remonumentation and records automation – The County has an active corner remonumentation program that complies with the requirements of Wis Adm Code AE 7.08 and/or state statute, and we plan to continue the program countywide. We are establishing coordinates on the PLS corners using a combination of conventional survey techniques and GPS technology meeting or exceeding the FGDC Third-order, class I accuracy standard. Coordinates are maintained in the Wisconsin Price County Coordinate System which is mathematically relatable to the North American Datum (NAD) 83(91). We plan to continue work in areas with heavy development to aid in the development of parcel maps. Other areas (i.e., industrial forests, etc.) will be monumented as need and budget allows. The County maintains the

custodial responsibility for the PLSS.

2. Orthoimagery and Georeferenced Image Base Data

- a. **Photogrammetric base maps** – Photogrammetric base maps are not part of Price County’s GIS website, as of yet. These can be incorporated into the GIS as it develops further, as applicable and when time and budget allow.
- b. **Digital orthophotography** – Price County is participating in a Wisconsin Regional Mapping Initiative to acquire color digital orthophotography. The County would like to plan for an update in 5 years depending on available funding. The photography will be acquired to support National Map Accuracy Standards. The County intends to maintain custodial responsibility.
- c. **Digital raster graphics** – DRG’s are part of Price County’s GIS website.
- d. **Satellite imagery** – Satellite imagery is not part of Price County’s GIS website. Imagery can be incorporated into the GIS as it develops further, as applicable and when time and budget allow.
- e. **Oblique aerial imagery** – The County Emergency Management Department recently received a grant to purchase countywide oblique imagery from Pictometry. We will receive countywide 12” resolution color photography and 328 mi² of 4” photography around the more populated areas. We are hoping to take possession of photography in the Fall of 2011.
- f. **Historical aerial imagery** – Historical aerial imagery will continue to be maintained on the GIS website, providing a valuable tool to be used in emergency planning and response, government decision-making and sound land use policy development.

3. Elevation Data Products and Topographic Base Data

- a. **Digital elevation models (DEM)** – The County has no plans to acquire a DEM at this time. We would consider it if the need arises and funding was available.
- b. **Digital terrain models (DTM)** – The County has no plans to acquire a DTM at this time. We would consider it if the need arises and funding was available.
- c. **Triangulated irregular networks (TIN)** – The County has no plans to acquire a TIN at this time. We would consider it if the need arises and funding was available.
- d. **Contours** – The County would be very interested in developing countywide contours but would need considerable financial assistance to undertake this task.
- e. **LIDAR data** – The County has no plans to acquire a LIDAR data at this time. We would consider it if the need arises and funding was available.
- f. **IFSAR data** – The County has no plans to acquire a IFSAR data at this time. We would consider it if the need arises and funding was available.

4. Parcel Mapping

- 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 title boundary line or land survey line information** – Price County is completely parcel mapped. All parcel maps are referenced to the lines of the public land survey system, county surveyor information, and certified survey maps on record in the Register of Deeds Office. We followed the WLIB Digital Parcel Mapping Standard for Index mapping where practical.
- 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** – It is an ongoing project to collect coordinate data on existing corners, but in areas of the county where this data is not available the parcel mapping is referenced to a variety of sources including recorded legal descriptions.
- c. **Coordinate system used** – Parcel maps are referenced to the Price County Coordinate System.
- d. **Parcel ID** – Price County Parcel ID conforms to the WLIA’s Parcel Geo-locator Standard or the DOR Standard.

5. Parcel Administration and Assessment Information

- 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** – Price County has integrated property and ownership records with the digital parcel maps by linking data through key fields. The IT and Real Property Listing Departments use a Windows Server2003 SQL database to maintain the tabular databases relating to various land records.
- b. **Activities associated with modernizing the use of parcel level information once created from and in support of parcel maps:**

Parcel ID – May be used to search for property records in-house in our Manatron Novus-WI Software Property Assessments and Treasurer’s Collections. The Parcel ID may be used as a search criteria in our GIS website and public access terminals.

Tax data – Available through the Manatron Novus-WI program in-house and is also available by viewing the property record on the GIS website.

Site Address – Individual site address information can be accessed through the real property data base or GIS geodatabase and are maintained in both locations. Most vacant rural properties do not have site addresses.

Owner name and address – This data resides on our Windows Server real property database and is maintained by the Real Property Lister.

Description/current document pertaining to parcel – The real property lister adds the current document information as documents are recorded. A brief legal description is

maintained in the tax database, a full legal description can be obtained from the deed referenced. This information is stored on our Windows Server.

Document imaging – The Register of Deeds Office records these transactions which began in 2004. The Register of Deeds also images all vital records. Imaging has also included all the County Surveyor files, certified survey maps, Plats, certified corner certificates, building permits, old tax rolls and tax bills etc.

Real estate transactions – The Register of Deeds Office records these transactions and maintains a tract index. Searches can be made by grantor, grantee, legal description, or document number through the automated tract index system. The real estate document index is available on the public terminals in the Register of Deeds office.

Easements and restrictions, including conservation easements – These documents are included in the real estate documents recorded in the Register of Deeds office and are available in the same manner as any other real estate document.

Tax exempt status – Exempt status is coded in the real property data base and made evident when viewing the property record.

Zip codes – Both the owners' mailing address zip code and the property's physical address zip code are maintained in the real property data base.

Assessment class – The assessment class code is included in the property record along with an explanation of the various classes shown when viewing the record on the GIS website.

Public lands – Public lands may be searched on the GIS website by the tax classification or owner's name, e.g. Price County, State of Wisconsin, or by legal description etc.

Liens – The Register of Deeds Office records these transactions and maintains an automated tract index so searches can be made by grantor, grantee, legal description, document number, and/or volume and page.

Evidence of Title – The Register of Deeds Office maintains the current and historic documents affecting title and tract index so searches can be made by grantor, grantee, legal description, document number, and/or volume and page.

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

- a. Transportation network (streets, roads, highways, railroads)** – Streets, roads and highways are included on the parcel maps and have been determined by researching documents in the Register of Deeds office, highway plat maps and also determining current use.
- b. Rights of way** – Rights of way of public roads was developed as part of the parcel mapping process. However many of our roads lack written descriptions or surveys so the positional accuracy needs improvement and is updated as new information is obtained

from various sources.

- c. **Centerlines** – The County plans to maintain its existing planimetric base map that consists of centerlines of all named public and private roads within the County. The County complies with our own mapping standards as the standard for mapping centerlines.
- d. **Address ranges** – The County created address ranges based on existing address points to support emergency response applications, wireless 911 and routing applications. The address ranges are also being placed in the real property data base when time allows.
- e. **Site address database** – A grid system for addresses was designed for Price County a number of years ago. Except for the Cities, Villages and 6 other incorporated municipalities, the County administers the county wide addressing and road naming. Site addresses have been added to the property records maintained by the real property lister.
- f. **Address point, structure and/or driveway** – The County plans to continue collecting driveway (access) points corresponding to addresses.
- g. **Road names** – The County maintains a road centerline dataset with the current road names included as an attribute. The County attempts to comply with the US Postal Standards for road naming.
- h. **Functional class** – This data is not yet included in the GIS.
- i. **Places/Landmarks** – The County anticipates working with Emergency Government to create a GIS layer with these features.
- j. **Integration with the County’s/City’s Master Street Address Guide (MSAG)** – The 911 coordinator in the Sheriff’s Department has the responsibility to update and maintain the MSAG. We are working with the Sherriff’s Department to ensure consistency and integration and plans to continue that relationship. We adhere to our 911 provider data standards which meet industry standards.
- k. **Ability to support emergency planning, routing, response and mapping** – The County anticipates working together in sharing data sets necessary for emergency applications. We will work to expand on these applications and other as available time and funding allows.
- l. **Ability to support Wireless 911** – Price County 911 Communication Center has had the ability to receive and plot the location of 911 calls.

7. Hydrography, Hydrology and Wetlands Mapping

- a. **Hydrography** – Hydrography are not part of Price County’s GIS. They can be incorporated into the GIS as the data is developed, as applicable and when time and budget allow.
- b. **Watersheds** – Watersheds are not part of Price County’s GIS. They can be incorporated into the GIS as the data is developed, as applicable and when time and budget allow.

- c. **Hydrogeology** – Hydrogeology is not part of Price County’s GIS. This can be incorporated into the GIS as the data is developed, as applicable and when time and budget allow.
- d. **Impacts on the environment (e.g. groundwater contamination, storm water)** – This information is not part of Price County’s GIS, but can be incorporated as the data is developed, as applicable and when time and budget allow.
- e. **Wetlands mapping activities** – Price County currently uses the original DNR digital wetlands coverage. We will acquire new digital data if and when the DNR updates the wetlands inventory in Price County. We will incorporate the updated product in our GIS.

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

- a. **Soils mapping activities** – Soils mapping has not been incorporated into Price County’s GIS website. This can be included as the website is developed further, as applicable and as time and budget allow.
- b. **Land cover** – Land cover has not been incorporated into Price County’s GIS website. This can be included as the website is developed further, as applicable and as time and budget allow.
- c. **Forests** – Forests have not been incorporated into Price County’s GIS website. This data can be included as the website is developed further, as applicable and as time and budget allow.
- d. **Geology** – Geology has not been incorporated into Price County’s GIS website. This can be included as the website is developed further, as applicable and as time and budget allow.
- e. **Hydrogeology** – Hydrogeology has been incorporated into Price County’s GIS website.
- f. **Non-metallic mining** – Non-metallic mining data has not been incorporated into Price County’s GIS website. This can be included as the website is developed further, as applicable and as time and budget allow.
- g. **Endangered resources** – Endangered resources have not been incorporated into Price County’s GIS website. This can be included as the website is developed further, as applicable and as time and budget allow.
- h. **Impacts on the environment (e.g. air emissions; soil contaminants; coastal stability)** – Impacts on the environment have not been incorporated into Price County’s GIS website. This can be included as the website is developed further, as applicable and as time and budget allow.

9. Land Use Mapping

- a. **Mapping of existing land use** – Existing land use has not been incorporated into Price County’s GIS website. This can be included as the website is developed further, as applicable and as time and budget allow.

- b. **Mapping of planned land use** – Planned land use has not been incorporated into Price County’s GIS website. This can be included as the website is developed further, as applicable and as time and budget allow.

10. Zoning Mapping

- a. **Zoning districts** – Zoning districts are part of Price County’s GIS website. This is in accordance with the Price County Zoning Ordinance.
- b. **Shorelands** – Price County has mapped all shoreland buffers bases on standards set by the current Price County Shoreland Zoning Ordinance. All buffers within 300’ of creeks (including intermittent streams) identified on USGS topographic quadrangles or 1000’ of lakes or rivers were mapped by 12/31/1999. Accuracy of Price County’s base map is improved as survey data is received and additional GPS points added.
- b. **Floodplains and floodways** – Price County uses hard copy Federal Emergency management Agency (FEMA) mapping for full county coverage. On the ground accuracy of these maps is extremely limited. A floodplain study was completed in 1989 for the immediate Elk River watershed from the confluence of the South Fork of the Flambeau River and Elk River; upstream to Musser Dam; including Squaw Creek from Lake Duroy to Solberg Dam. Future plans to digitize this information have not been formulated. If Fema makes digital information available the County will be interested in including it in their GIS.
- c. **Environmental corridors** – Environmental corridors are not part of Price County’s GIS website. These can be incorporated into the GIS as it develops further, as applicable and when time and budget allow.
- d. **Burial sites** – Burial sites are not part of Price County’s GIS website. These can be incorporated into the GIS as it develops further, as applicable and when time and budget allow.
- e. **Archeological sites** – Archeological sites are not part of Price County’s GIS website. These can be incorporated into the GIS as it develops further, as applicable and when time and budget allow.
- f. **Historic/cultural sites** – Historic/cultural sites are not part of Price County’s GIS website. These can be incorporated into the GIS as it develops further, as applicable and when time and budget allow.

11. Election and Administrative Boundary System

- a. **Election (voting district) boundaries (precincts, wards, supervisory, voting places, etc.)** – Election boundaries are not part of Price County’s GIS website. These can by incorporated into the GIS as it develops further, as applicable and as time and budget allow.
- b. **Legislative districts** – Legislative districts are not part of Price County’s GIS website. These can by incorporated into the GIS as it develops further, as applicable and as time

and budget allow.

- c. **Utility districts (e.g. water, sanitary, electric, etc.)** –The real property data base includes a code designation which parcels are within a sanitary district. We can create boundaries of sanitary districts as needed.
- d. **School districts** – School districts are part of Price County’s GIS website.
- e. **Tax incremental financing districts** – The real property data base includes a code designation which parcels are within a TIF district. We can create boundaries of TIF districts as needed.
- f. **Agency administrative districts and Zip Codes** – The real property data is working on zip code ranges as time permits. We can create boundaries of zip code ranges as needed when complete.
- g. **Census geographies: Blocks; Block groups; Tracts; Designated places; Urban areas; Traffic analysis zones** – Census geographies are not part of Price County’s GIS website. These can be incorporated into the GIS as it develops further, as applicable and as time and budget allow.
- h. **Civil division boundaries (Towns, Cities, Villages, etc.)** – Civil division boundaries are included in Price County’s GIS. Revisions are made when annexations occur or more accurate information is acquired.
- i. **Public Administered Lands (i.e. parks, forests, etc.)** – Public administered lands are not part of Price County’s GIS website. The real property database and the GIS parcel map could be used to determine public administered lands and district boundaries.
- j. **Native American Lands** – There are no Native American lands in Price County.
- k. **County boundaries** – The County created an approximation of the County boundary based on our digital parcel mapping. We will be revising it as we acquire more accurate coordinates on the PLSS corners that make up our boundary.
- l. **State outline** – The outline of the State of Wisconsin is not part of Price County’s GIS website.
- m. **Lake districts** – Lake districts are not part of Price County’s GIS website. These can be incorporated into the GIS as it develops further, as applicable and as time and budget allow.

12. Critical Infrastructure and Facilities Management

- a. **Emergency service districts** – The County created emergency service zone maps that are created and maintained in cooperation with our Land Information, Sheriff and Emergency Government departments. These emergency zones are also part of the real property database and the GIS parcel map could be used to determine these zones on the GIS website. We are in the process of adding the Emergency Service Number (ESN) to each parcel as time permits.

- b. **911 call center service areas & center locations** – The County has one PSAP located in Sheriff’s Department.
- c. **Fire/Police districts** – Fire/police districts are not part of Price County’s GIS website. The real property database and the GIS parcel map could be used to determine Fire/Police district boundaries.
- d. **Fire/Police stations** – Fire/police stations are not part of Price County’s GIS website. These can be incorporated into the GIS as it develops further, as applicable and when time and budget allow.
- e. **Hospitals and healthcare facilities** – Hospitals and healthcare facilities are not part of Price County’s GIS website. These can be incorporated into the GIS as it develops further, as applicable and when time and budget allow.
- f. **Government facilities** – The real property database and the GIS parcel map could be used to determine Government facilities boundaries if needed using the addresses.
- g. **Utilities – not districts (e.g. gas, electric, sanitary, water, phone, telecommunications, etc.)** – Utilities are responsible for creating their own datasets. The County will make available any data we have that is deemed useful by the utility.
- h. **Parks & recreational trails (i.e. Ice Age/bicycle/hiking/snowmobile/horseback riding)** – The Forestry Department maintains the database for County Parks, snowmobile trails and other types of trails, some, are a part of the website but more will be incorporated into the GIS as it develops further, as applicable and as time and budget allow.
- i. **Transit systems** – Transit systems are not part of Price County’s GIS website. These can be incorporated into the GIS as it develops further, as applicable and when time and budget allow.
- j. **Bridges, culverts, traffic road signs** – Bridges, culverts and traffic road signs are not part of Price County’s GIS website. The County Highway Department has this information and can be incorporated into the GIS as it develops further, as applicable and when time and budget allow.
- k. **Airports and airfields** – Airports and airfields are not part of Price County’s GIS website. These can be incorporated into the GIS as it develops further, as applicable and when time and budget allow.
- l. **Harbors** – Price County does not have any harbors at this time.
- m. **Boat landings** – Boat landings are not part of Price County’s GIS website. Boat landing can be located through the real property database by site address and linked to the GIS parcel map if needed.
- n. **Hazardous materials sites; e.g. LUST (Leaking Underground Storage Tank), etc.** – Hazardous materials sites are not part of Price County’s GIS website. These can be incorporated into the GIS as it develops further, as applicable and when time and budget allow.

allow.

- o. Landfills** – Landfills are not part of Price County’s GIS website. These can be incorporated into the GIS as it develops further, as applicable and when time and budget allow.

13. Database Design and System Implementation

- a. Design evaluation** – County staff and consultants retained by the County for database development closely review the design of new databases.
- b. Project approach** – In tandem with design evaluation, pilot projects will be undertaken to scope full project implementation, determine functionality and make adjustments, and refine final project and database design.
- c. Timeline** – The timeline for development and implementation is based on priorities and issues related to funding and staff levels. As major funding for these projects relies on retained fees, much is driven by the current economic situation.
- d. Metadata policies** – Metadata for datasets will be developed as applicable and when time and budget allow and will adhere to the minimum standards set forth by the FGDC’s *Content Standards for Digital Geospatial Metadata, Sections 1 and 7*.
- e. Security/Privacy policies** – Price County adheres to the Wisconsin Open Records Law and complies with Wisconsin State Statutes for access to restricted records.
- f. Implementation and maintenance strategy** – County staff and consultants retained by the County for database development create and review implementation and maintenance strategies on a database-by-database basis. Connectivity with and communication and/or data transfer between existing and planned databases is part of this process.
- g. Data quality management** – As individual departments of Price County have historically been responsible for documentation of departmental data, so have they been responsible for managing its quality. This paradigm will continue.
- h. Needs assessment** – The Price County Land Information Council meets regularly to discuss and prioritize needs for the County’s Land Information Program; and the databases that are part of that program.
- i. Data structure and format (e.g. topology)** – Topology rules within the ESRI software environment are followed for the County GIS datasets.
- j. GIS data models (database and workflows)** – The ESRI software can generate the GIS model that has been implemented for the geodatabase.
- k. Data dictionary** – The County develops data dictionaries for attributing data sets or data collection with our GPS.
- l. Coding schema** – The County uses existing standardized coding schemes whenever possible.

- m. Transaction management** – A date field is carried in some databases to track edits and updates.
- n. Organizational information flows** – The Price County Land Information Council may formulate organizational information flows cross-departmentally, as appropriate and when time and budget allow.
- o. Data conversion** – Our GIS data layers are geographically referenced to enable most datasets to be bi-directionally converted. Our tabular can also be converted to a variety of data formats.
- p. Ability to integrate with other databases and information systems (vertical and horizontal)** – The County identifies key fields or data elements needed to support sharing of data and incorporates them in our databases whenever practical to promote integration.

F. Public Access

- a. Use of technology to facilitate efficient access (e.g. Internet, query systems, DVD/CD)** – Price County currently has three (3) public terminals located in the Register of Deeds Office that provide access to the real estate document index, tax and assessment information. The public terminals may also be used to access Price County’s GIS website. The website can be accessed from the Price County’s Website at <http://www.co.price.wi.us> or directly at <http://pricecowi.wgxtreme.com>.
- b. Use of 3rd party technology for access (e.g. GIO Repository, Google, offsite hosting)** – Price County has retained a consultant Applied Data Consultants (ADC) to host the GIS website. The website is currently being upgraded to provide increased functionality and improve the design.
- c. Data sharing policies (copyright, licensing, fees, etc.)** – Price County has agreed to provide a copy of the parcel geodatabases and/or property record information without fee to educational institutions and governmental agencies and also to anyone who requests the data for educational purposes. The County has established a Contractual Agreement with fee schedule for those who do not fit the criteria to qualify for the data at no charge.
- d. Open access to data in existing format** – Price County adheres to the Wisconsin Open Records Law for access to any land record.
- e. Subscription-based or public-facing web services** – The County will monitor the public facing web services to see if this technology would be of benefit to more easily find our data on the internet.
- f. Optional production of customized data on cost-recovery or other basis** – Price County offers both tabular and graphic data for purchase in industry standard accepted interchange formats. Customized digital data and tabular requests are charged per Land Information policies.
- g. Internet accessibility (ADA compliance, security)** – Price County has Internet websites, including the main County website and the GIS website, and strives to provide

secure, compliant access to County information.

- h. System security** – Security for Price County’s land information databases is maintained by the IT Department using Microsoft network and Windows 2003 Server permission-based access internally and by having a firewall in place to provide external security. The IT Department maintains a back-up/security plan for all data.
- i. Privacy policies** – Price County adheres to the Wisconsin Open Records Law and complies with Wisconsin State Statutes for access to restricted records.
- j. Use of \$2 fee designated for land information and housing data (s. 59.72 (5) (b) 3, Wisconsin Statutes)** – As required, Price County uses the public access fund to expand Internet access to County information.

G. Integration and Cooperation

- a. Formal data sharing agreements (memorandums of understanding, etc.)** – Price County has data sharing arrangements with other County departments, town & city, consultants working for towns or the County, and State agencies. The County will continue these arrangements and pursue others as opportunities arise. The County encourages others to use our digital data by setting a nominal cost or no cost. We encourage cost-free exchanges of information that will enhance our system.
 - c. Formal or informal data maintenance agreements between departments/agencies** – Price County has a formal agreement with Applied Data Consultants, the County’s GIS consultant, in which the County maintains parcel data and transfers the data to ADC to be integrated on the GIS website.
 - d. Cooperative arrangements (e.g. agencies; libraries; schools; RPCs; utilities; privates)** – The Price County Land Information Council has agreed to freely share parcel geodatabases and property records (tax and assessment data) with other government agencies, educational institutions and private companies that are working with a public agency.
 - e. Consortia (e.g. inter-county, regional)** – Price County will evaluate opportunities as they arise. Price County currently participates with Sawyer, Bayfield, Burnett and Washburn Counties for the assessment/tax database.
 - f. 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.)** – Price County actively participates in collaborative arrangements for data creation particularly with other County departments. We plan to continue our participation in the WLIP Technical Assistance List Server and others as opportunities arise.
 - g. Statutory relationships among counties and state agencies** – Price County will comply with statutory requirements relating to land records as applicable.
- 1. Integrative and cooperative relationships** - Price County is interested in establishing

relationships that aid further development of the countywide-GIS, whether it be sharing of data and its development and upkeep, software and its maintenance and upgrade, or hardware and other equipment (such as GPS) and its replacement.

2. **Potential partners/projects** - Price County is always open to discussing with potential partners for development, update or maintenance of any land records data set, please contact us. We have, are in the process of, or interested in developing relationships for digital ortho production, census, survey control, flood plain mapping, etc. Potential partners would be WLIB, DNR, Towns, City, DOT, Highway Department, Private Industry, National Forest Service, FEMA and others.
3. **Data shared/used** - The Price County parcel geodatabases will be shared and used for the common registration of datasets. The horizontal control network and PLSS coordinates will be available for data acquisition.
4. **Coordination of funding** - The Price County Land Information Council meets regularly to discuss and prioritize needs for the County's land information program, including funding allocation. The council consists of members representing a variety of interests in land records modernization as prescribed in s. 59.72 (3m), Wis. Stats. Meetings are publicly announced and are open to the public and staff from County departments that are not represented on the council.
5. **Participation of municipalities and other agencies** - The Price County Land Information Council posts the meeting notice and agenda for all meetings. Municipalities and other agencies in the region are welcome to participate in the meetings and to contact the Land Information Officer at anytime with suggestions for projects to be included in the County's land information program.

H. Communication, Education, Training and Facilitated Technical Assistance

- a. **Documentation of county data, models and processes** – Individual Departments of Price County have been responsible historically for documentation of departmental, and thus County, data. This paradigm will continue, but with the further construction of the GIS, metadata also will serve as documentation for GIS-specific data, cross-departmentally.
- b. **Resources available** – Price County staff continue to participate in workshops, seminars, software training and users group meetings, as appropriate and when budget allows.
- c. **Identification of customer needs** – Price County has a statutorily-required Land Information Council made up of: Register of Deeds / Land Information Officer; Real Property Lister; Assistant Zoning Administrator; County Surveyor; County Treasurer; County Forester; Land Conservationist; two (2) County Board Supervisors. The Land Information Council meets regularly to discuss and prioritize needs for Price County's land information program.
- d. **Coordination of education/training with agencies, associations and educational institutions** – As opportunities arise, Price County staff will participate in the coordination of education/training, as appropriate and when budget allows.

- e. **Use of technology to facilitate education and training** – The County has access to internet based training and education courses.
- f. **Use of, or plan to participate in, clearinghouse/repository and land information technical assistance listserv** – Price County has access to the Internet, and thereby connects to the Clearinghouse and Technical Assistance List Server. County staff will participate as situations and needs warrant.
- g. **Use of land information officer education and training funds** – Price County utilizes LIO education and training funds as warranted.

I. Administrative Standards Not Associated With Foundational Elements

1. Price County agrees to observe and follow the statutes relating to the Wisconsin Land Information Program (WLIP) and other relevant statutes.
2. The County agrees to permit the Wisconsin Department of Administration to access books, records and projects for inspection and audit.
3. The County agrees to complete the GIS Inventory Survey.
4. The County agrees to update the plan every five (5) years and in the interim if the plan should change.
5. Price County recognizes that the development and implementation of an acceptable plan confers certain benefits, including continued eligibility for Program funding. A peer review process will be used to assess Plan acceptability by the land information community.