

**CHIPPEWA COUNTY
LAND RECORDS MODERNIZATION PLAN
2010 - 2015**

Prepared by the Chippewa County Land Records Department
Steven J. Johnson, Land Records Coordinator / County Surveyor
May 12, 2010

Executive Summary

The purpose of the following is to update the Chippewa County Land Records Modernization Plan. This plan will address the elements as outlined in the uniform instructions for preparing county land information modernization and integration plans issued by the Land Information Board.

Elements of this plan include but are not limited to: The continuation of the Public Land Survey remonumentation program which will facilitate the continued drafting and maintenance of digital tax parcel maps. The continued updating of the digital photo imagery, which can be used in planning issues and as a backdrop for the digital tax parcel maps, will be detailed. Maintaining and updating of the optical imaging system currently used by the Register of Deeds. The continued linking of existing data bases such as real property tax roll with the countywide parcel maps in shape file format. The linking will be done by using the parcel identifying number as assigned by the Real Property Lister. Acquisition of new software and hardware as well as further training is essential the completion of these goals.

Information has been gathered from various county departments in the development of this plan.

Land, Forest and Parks Committee / Primary Contact

The Land, Forest and Parks Committee is a regular committee of the Chippewa County Board and currently consist of the following members:

Bill Stoll, Chair
Michael Murphy
Dale Johnson
Leigh Darrow
Lee McIlquham

The committee has designated the Land Records Coordinator to be the Land Information Officer (LIO) for Chippewa County. The Chippewa County contact person is:

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The following individuals are involved in land records usage and have been instrumental in providing input into this plan:

Dennis Brown, Emergency Management Director
Marge Geissler, Register of Deeds
Dan Masterpole, County Conservationist
Christine A. Haun, Information Technology Director
Bruce Stelzner, Highway Commissioner
Douglas Clary, Planning and Zoning Administrator
Patricia Schimmel, County Treasurer
Kathleen M. Bernier, County Clerk

A. Goals and Objectives

The primary goal of Chippewa County's land records modernization project is to provide the users of land records with a more efficient, accurate and economical product. In order to meet these goals, the county intends to reduce duplication, develop data transfer standards and continue to maintain open communication lines between departments.

The ultimate goal of land records modernization is to create an accurate and comprehensive land information database that will not only benefit county employees but will also benefit local municipalities, businesses and citizens of Chippewa County. All goals will be addressed during the next planning period and are not necessarily listed in order of priority.

- 1.) Maintain the completed in house digital tax parcel mapping system.
- 2.) Update and maintain the public land survey system corner markers.
- 3.) Continued upgrading of the digital photo imagery for countywide coverage.
- 4.) Improve the county zoning and planning system by implementing a document storage and retrieval system linked to the GIS system.
- 5.) Continue the document imaging in the Register of Deeds office and in addition:
 - Continue implementing 30 to 50 year back conversion of documents from microfilm to optical disk.
 - Rescan Missing, Incomplete or Poor Quality Documents from conversion.
 - Clean up of legal descriptions on older documents.
 - Microfilm documents not scanned.
 - Verify converted documents.
 - Update hardware and software for imaging as needed.
 - E-recording.
- 6.) Create and maintain the internet web sites for the various Chippewa County departments.
- 7.) Improve the utility of web-based GIS to allow landowners, town plan commissions, businesses, and third party technical providers gain access to resource-based maps and data sets.
- 8.) Make the plan dynamic and appropriate over time.

B. Progress report on ongoing activities

Continue the following projects in progress:

- 1.) The in house digital tax parcel mapping program. All twenty-nine of the government townships have been mapped to date. The mapping is based on GPS control of the public land survey corners and is referenced to the Chippewa County geodetic grid as published by the Wisconsin Department of Transportation. The mapping includes parcel identifying numbers (see appendix) and legal document identifiers (i.e. Deed, Plat and C.S.M. references). The mapping is being generated in cadd format using coordinate geometry (COGO). The digital tax parcel maps are updated with the property splits every year. The cadd parcel maps are then joined with the property tax roll to create ArcView shape files.
- 2.) Update and maintain the public land survey system corner markers. This will be a continuous project. Maintenance of existing monuments is conducted yearly. GPS control on the corner markers is also being collected in order to facilitate accurate parcel mapping and maintenance of the corner marker locations.
- 3.) To date, Chippewa County has purchased a 1m resolution 1998 photo image, which replaced the previous 5m resolution photo, and has rectified the image to the Chippewa County Geodetic Grid. In addition 1m resolution photos have been acquired from NAIP for the years 2005, 2006 and 2008. These rectified images are now available to user departments and the public. Chippewa County is planning to acquire a 6" resolution photo along with a LIDAR data acquisition in order to attain 2 foot contours, county wide, in 2010.
- 4.) Maintain & update document imaging in Register of Deeds.
- 5.) Continue to maintain and expand the existing GIS in the Department of Land Conservation and Forest Management (LCFM).

The LCFM has developed a series of multi-relational databases and a natural resource based GIS that are now maintained to fulfill department responsibilities. Resource based layers available and maintained on this GIS are defined under Section D of this plan - Custodial Responsibilities.

LCFM has developed administrative procedures for the management and use of multi-relational databases and GIS components.

These policies are included in two documents:

1. Administrative Policy to Address Requests for Digital Records and Spatial Data Maintained by the Chippewa County Land Conservation Department, Issue Paper #94-4, (10/30/95). This policy defines public data sets available through the department and standards for record management and transfer. The LCFM is currently in the process of updating this policy.

2. LCFM GIS Directory Structure (AV Guide)

This directory structure is used to define the type and coverage of special data layers used by the department, naming conventions, and the directory structure used for data storage and access. This directory structure is provided in Appendix 1.

This directory structure will be revised by adding new layers and associated databases. As part of this effort, metadata will be created as new layers are added and old layers are updated.

It is the intent of the LCFM to manage this information following established policy and procedures, and to expand the utility of these components by making them available to other user departments, and to the general public.

6.) Expand the role of the Information Systems Department in issues of data transfer.

7.) Improve the county soil survey and wetland inventory.

A. Soil Survey. Chippewa County entered a formal cooperative agreement with the USDA Natural Resource Conservation Services to digitize the Chippewa County Soil Survey to USDA specifications.

To date, the Soil Survey has been digitized to USDA specifications and is now being used routinely by the LCFM and other departments. The digital survey has been transferred to the West Central Regional Planning Commission for routine application.

B. Wetland Inventory. Chippewa County has acquired a digital copy of the original DNR Wetland Inventory, (1983). The DNR Wetland Inventory has not been maintained through time and is of limited value.

Chippewa County contracted a private sector vendor to digitize the NRCS Wetland Inventory, 1994. The NRCS Wetland Inventory is routinely used for planning and administrative purposes.

The LCFM staff has formally requested the most current version of the Wisconsin Wetland Inventory (WI-DNR, May 1996) in digital format. DNR has acknowledged the request and is now preparing the digital layer. Upon receipt, the LCFM plans to project the data into the Chippewa County Coordinate System and make the layer available to other departments as part of the County GIS.

C. New Initiatives

1.) The Land Records Department has access to the internet and does utilize the Wisconsin Land Information Program land information clearinghouse and technical list server. The Wisconsin Land Information Program revenues obtained by Chippewa County are used for the improvement of the land record modernization project. Chippewa County also follows procurement processes consistent with the State of Wisconsin and county procurement rules.

2.) The Land Records Department is implementing and maintaining a fully integrated geographic information system (GIS) which will combine elements from at least the following departments: Emergency Management, Register of Deeds, LCFM, Information Systems, Forest & Parks, Highway, Planning and Zoning and the County Treasurer. Much of the GIS is available online at <http://www.co.chippewa.wi.us/> from each of these departments.

3.) The Land Records Department will keep up to date on new technology that is developed and will determine if new technology and training is required. We are in the planning stage of implementing geo-database technology. Geo-database technology, being the central hub for land related data, will be made available publicly through web-based and PC-based applications.

4.) Support & Maintain LandShark, Chippewa County Register of Deeds Land Records Online Internet Access System.

5.) Support & Maintain E-Recording, Register of Deeds Electronic Recording System

6.) Implement Database and tract all Government lots in Register of Deeds system.

7.) Encourage Cities, Towns and Villages to record all road/land information in Register of Deeds office.

8.) The LCFM currently maintains a natural resource based GIS available to the public on the internet. The web site address is <http://chippewawi.mapping-online.com/ChippewaCoWi/>.

- 1) In the future, the department plans to expand the utility and function of the system by developing applications that will allow the public to apply for and renew permits, provide required reporting information, and to create and update maps on line.

9.) The Land Records Department intends to pursue technology that will allow staff to access records in the field and to update and maintain those records through a network connection.

10.) Establishment of a Land Information Council as per Wisconsin Act 314. Under this new law if the county board has established a land information office, the board shall

have a land information council consisting of not less than 8 members. The council shall consist of the register of deeds, the treasurer, and, if one has been appointed, the real property lister or their designees and the following members appointed by the board for terms prescribed by the board:

1. A member of the board.
2. A representative of the land information office.
3. A realtor or a member of the Realtors Association employed within the county.
4. A public safety or emergency communications representative employed within the county.
- 4m. The county surveyor or a registered professional land surveyor employed within the county.
5. Any other members of the board or public that the board designates.

The land information council shall review the priorities, needs, policies, and expenditures of a land information office established by the board under sub. (3) and advise the county on matters affecting the land information office.

D. Custodial Responsibilities

Chippewa County uses a distributed approach towards the management of land records. Under this system, the department that is responsible for management of a specific land record is also responsible for updating and maintaining the digital record.

The following departments have been identified as custodians and/or users of Land Records GIS. Brief departmental summaries are included.

County Treasurer / Real Property Lister

The Chippewa County Real Property Lister maintains the county's assessment rolls, tax rolls and other related information on an AS400 / PC network. The database includes a parcel identifying number (PIN see appendix), owner's name, owner's address, document volume and page, assessment information and other information. A split file is used to update parcel divisions on a weekly basis. The real property tax roll as well as assessment data are available on the internet at no charge. This data is updated on a daily basis and is located at <http://www.co.chippewa.wi.us/>. Within the next five years the AS400 tax roll database will be phased out and replaced with a windows based system. This update will allow greater flexibility and seamless interaction with GIS applications.

Register of Deeds

- a. Record/File/Index deeds, mortgages, plat maps, certified survey maps, and other related documents (SS 59.43)
- b. Scan above mentioned records into imaging system as they are received and filed. (59.43)
- c. Maintain tract index of real property (59.43)
- d. Scan/File/Index /Certify copies of other documents such as Vital Records (Birth,

marriage, death and domestic partnerships) that are not associated with the Land Information Program.

e. File/Index and certify copies of Military Discharge papers not associated with the Land Information Program

Emergency Management

Chippewa County Emergency Management is responsible for planning and coordination of emergency services during natural and manmade disasters. Emergency Management develops response policies, keeps and updates resource manuals and prepares mitigation plans with local governments and private industries.

The department works closely with the county's two 911 Public Safety Answering Points (PSAPs), maintains the Address Point GIS layer, 911 Emergency Service Zones (ESZs) GIS layer and the Master Street Address Guide (MSAG) for Enhanced 911. The department's GIS layers are compatible with the Land Records Department's road centerline mapping and they are utilized for Enhanced 911. The map data is local-government compliant and as well as compliant with the US Census Bureau and US Postal Service standards (see appendix).

Information Technology Division

The Information Technology Division works with Chippewa County departments to provide technical support of both hardware and software. The implementation of PC networks and AS400 communications are vital to the inter-departmental communications. The Information Technology Division is the custodian of Chippewa County's web servers. As such they provide technical assistance to the county departments who publish data to the internet. They pledge to support future technology as needed such as Geo Database, Integrated Tax Application and others as deemed necessary by the County.

Department of Land Conservation and Forest Management

The LCFM is responsible for administering local land and water conservation, forestry, recycling, and forest trails programs under the direction of the County Land Conservation Committee and the Land, Forest and Parks Committee.

The Department is composed of three divisions: Land and Water Conservation, Forestry and Trails and Recycling.

The Land and Water Conservation Division administer technical and financial assistance to encourage landowners to manage and conserve local land, water, and related natural resources. It provides information on local land use, soils, geology, surface water, groundwater, and wetlands.

The Division also provides information on government programs that relate to soil erosion, water quality, animal waste/manure management wetlands, nonpoint pollution control, tree planting, and storm water management, Farmland Preservation, and non-

metallic mine reclamation. Information is provided to the public and local units of government on local, state, and federal regulations affecting natural resources.

The Forest and Trails Division manages the production, use, and conservation of the Chippewa County Forest and associated public land management units. It plans and administers timber sales, manages wildlife areas and flowages and issues public firewood permits.

The division also plans the County Forest road and trail network and manages public access. It works with user groups to manage and maintain County recreational trail system, including hiking, horseback, snowmobile, ATV, cross country skiing, and Old Abe Trail. They also sell state trail passes.

The Recycling Division manages the County recycling and solid waste management programs. It provides recycling assistance to local towns, cities, and villages. The Division sponsors household hazardous waste, appliance, and tire collections. The Recycling division also administers and enforces the County Recycling, Litter, and Solid Waste Disposal Ordinance.

The LCFM has developed and currently maintains digital records and data sets using ESRI[®] ArcView 9.3 and anticipated upgrades. Active digital records now used or maintained by the department area as follows:

Digital Databases

- A) Land Parcel Based Resource Inventories
 - Well Permit/Construction Reports*
 - Stream Reach data*
 - Land Cover
 - Wetlands

Spatial Data Layers

- a) Soil Mapping Units
- b) Surface Elevation
- c) Groundwater Chemistry*
- d) Groundwater Elevation
- e) Bedrock Geology
- f) Glacial Geology
- g) New Well Permits*
- h) Well Construction reports*
- i) Surface Hydrography
- j) Wetland Locations (DNR)*
- k) Wetland Locations (NRCS)*
- l) Barnyard Locations*
- m) Animal Waste Facilities*
- n)-Nonmetallic Mine Locations*
- o) Nonmetallic Mines-Reclamation Status*
- p) Urban Stormwater- Outfalls, Facilities and Conveyance Network*
- r) Building Locations
- s) Landfill Locations
- t) County forest management units

- B) Administrative Tracking
 - Farmland Preservation (parcels/tracts)*
 - DNR water quality contracts (parcels/tracts)*
 - DATCP water quality contracts*
 - DATCP/DNR ag Nonpoint compliance(parcel)*
 - Nonmetallic mines (Reclamation Plans)*
 - County Forest timber management
 - WPDES Stormwater Permit Program

- u) County forest roads & recreational trails
- v) County forest special mgt. units
- w) County held conservation easements

C) Farm Specific Field Management: Soil Erosion, and Pollutant Load Data

- Farmland Preservation (parcels/tracts)*
- Duncan Creek Watershed (parcels/tracts)*

*Records actively maintained by LCFM.

Planning & Zoning Department

The Chippewa County Planning and Zoning Department is in charge of administering a variety of activities. This department is responsible for land use planning activities and comprehensive zoning administration. Among the ordinances this department enforces is the uniform dwelling code, floodplain management ordinance, comprehensive zoning, shoreland zoning, private septic system, private wells and the wellhead protection ordinances. The existing zoning districts have been integrated with the parcel mapping and are available in ArcView format.

In the fall of 2010, the Planning and Zoning Department will be leading the acquisition of 6" resolution aerial photography along with LIDAR data in order to attain 2 foot contours. This data will be used for floodplain determinations, elevation studies and various other planning and zoning applications. The 2' contours obtained through LIDAR will replace the USGS digitized contours. This data will be made available to all other departments for their utilization.

The Planning and Zoning Department will be the custodian of all official shoreland, floodplain, 2' contour mapping and zoning district maps that will be used both internally and externally through the GIS.

Land Records / County Surveyor Department

The Chippewa County Surveyor is responsible for a variety of activities such as maintaining an electronic index and filing system for all surveys filed in the county. To provide assistance to the general public as well as county departments in surveying and mapping related issues. Remonumentation and maintenance of the public land survey system as well as other statutory duties. Wisconsin Statutes 59.45

This Department is also charged with creating and maintaining digital tax parcel maps forming the base of the county-wide GIS. This mapping contains land record information

such as deed, certified survey map and plat references, ownership, tax information and parcel-identifying numbers (see appendix). The land divisions (splits) are updated on an annual basis. Wisconsin Statutes 59.72

The Land Records Department also administers tax deed acquired lands within the county including maintenance and sale of such properties.

Another function of this Department is coordinating the use of and training for the GIS/GPS equipment and software within county departments, also to maintain and expand the existing GIS in the Land Records department. Also, to maintain and update the Land Records department web site at <http://www.co.chippewa.wi.us/>.

Highway Department

04-06-10 by Pat Calabrese, Operations Superintendent

The Chippewa County Highway Department is responsible for planning, construction and maintenance of all county trunk highways and bridges. The Highway Department contracts for most of the maintenance and some construction on state trunk highways in the county. The Highway Department contracts for some maintenance and construction on local roads including town roads and village and city streets in Chippewa County. Public Records maintained by the Highway Department that contain Land Records information include:

- Highway Miles Certifications and Maps
- Highway Construction Record
- Functional Classification Maps
- Average Daily Traffic Counts
- Bridge Inventory, County and Local
- Bridge Inspection Reports; County and Local
- Bridge Construction Plans; County, State and Local
- Highways Inventory and Condition Rating
- Road Signs Inventory
- Culvert Inventory
- Utility Permits
- Driveway and Road Access Permits
- Right of Way
- Highway Construction Plans; County, State and Local

WISLR Database: (Wisconsin Information System for Local Roads) The State of Wisconsin currently furnishes a web-accessible database with mapping that includes the following for all local roads and streets in Chippewa County:

- Highway Miles Certifications and Maps
- Highway Construction Record
- Functional Classification Maps
- Average Daily Traffic Count Locations

Bridge Locations

Registration is required to access the data and maps. User orientation with the site is needed to retrieve data. The site can be found by searching 'WisDOT WILSR'

Traffic Counts: Traffic Counts can be found at the Department of Transportation website: This site is easily navigable to find traffic count data in Chippewa County. The site can be found by searching 'WisDOT traffic counts.'

HSIS Database: (Highway Structures Information System) The State of Wisconsin currently maintains a web-accessible database with bridge information including:
Bridge Inventory Records; State, County and Local
Bridge Inspection Records; State, County and Local
Bridge Construction Plans; State, County and Local
Registration is required to access the data and maps. User orientation with the site is needed to retrieve data. The site is on the WisDOT extranet.

The Highway Department maintains hard copy land records for the following items, filed by Highway Name (A through ZZ).

Highways Inventory and Condition Rating

Road Signs Inventory

Culvert Inventory

Utility Permits

Driveway and Road Access Permits

Regulatory highway signs and speed zones can be found as layers on the existing ArcView County map maintained by the Land Records Department

Right of Way records for county highways including right of way plats, relocation orders, deeds, easements, conveyances and construction permits that have been developed or acquired for specific projects are kept with project highway and bridge files and are filed by Highway Name (A through ZZ). Complete highway right of way records for recorded instruments are maintained by the County Register of Deeds.

The County Land Records Department maintains a web-based Land Records Search which can be used to find highway project plans and right of way plats by Section, Town and Range. In addition, State Highway Plans can be found by highway name; select database "ROADS" and enter "HY 29" to find plan index for State Trunk Highway 29 plans. Similarly, county highway plans and plats can be found by highway name; select database "ROADS" and enter "CTY TK N" to find plan index for County Trunk Highway N.

Additional land information: The Highway Department maintains additional land use controls and restrictions as follows; these are currently in the process of being made available on the Highway Department website in cooperation with the county Information Services Department.

Access Guidelines and Specifications for Local Roads

Spring Weight Limits County Highways
Snow policy on county highways
Utility Policy on county highway right of way
Mailbox Policy on county highways

Right of Way records for county highways including right of way plats, relocation orders, deeds, easements, conveyances and construction permits that have been developed or acquired for specific projects are kept with project highway and bridge files and are filed by Highway Name (A through ZZ). Complete highway right of way records for recorded instruments are maintained by the County Register of Deeds.

The County Land Records Department maintains a web-based Land Records Search, which can be used to find highway project plans and right of way, plats by Section, Town and Range. In addition, State Highway Plans can be found by highway name; select database "ROADS" and enter "HY 29" to find plan index for State Trunk Highway 29 plans. Similarly, county highway plans and plats can be found by highway name; select database "ROADS" and enter "CTY TK N" to find plan index for County Trunk Highway N.

Note: The Department of Transportation, District 6 in Eau Claire, at one time maintained a database of state highway plans available on CD and viewable with MS document imaging, however, this has not been updated for several years per Brenda Marlow, Records Manager. The Highway Department has a hard copy index map of Chippewa County with project ID's for state highway projects and a corresponding CD for the index map which is about five years old.

E. Framework Data, System Implementation and Statewide Standards

1.) Geographic Positioning Reference Frameworks.

In July of 1995 Lampert, Lee and Associates completed the adjustment of the Chippewa County High Precision Geodetic Network. This adjustment complies with the WLIB Specifications and Guidelines to Support Densification of the Wisc. High Accuracy Reference Network (HARN) Using Global Positioning System (GPS) Technology - June, 1995. The network consists of a primary / secondary network and a tertiary network scattered through out the county. It is the Land Records Department responsibility to maintain the network.

Chippewa County has 84.6% of the public land survey monument records on file. A remonumentation program is in progress as well as a maintenance program to preserve existing corners. This program complies with the Standards for Public Land Survey System Corner Remonumentation. See Sec. 59.74 & 60.84 Wisc. Stats. and Wis. Admin. Code AE 7.08.

The staff of the Land Records Department is conducting an on going GPS survey to place accurate Chippewa County geodetic grid coordinate values on the known public land survey markers. To date 81.1% of all markers have Chippewa County geodetic grid coordinate values. All work meets the requirements of Standards for Geographic Control Data (FGCC Third Order Class II for Horizontal Coordinate Values).

2.) Orthoimagery and Georeferenced Image Base Data

To date, Chippewa County has purchased a 1m resolution 1998 photo image, which replaced the previous 5m resolution photo, and has rectified the image to the Chippewa County Geodetic Grid. In addition 1m resolution photos have been acquired from NAIP for the years 2005, 2006, 2008 and 2010. These rectified images are now available to user departments and the public. Historical aerial photography dating back to the 1930's is also available for reference. Satellite imagery was purchased in the 1970's and was quickly outmoded by aerial photography. USGS quadrangle mapping (DRG) have been scanned and rectified for use as a reference with the parcel mapping.

Oblique imagery will be included with the 6 and 18 inch resolution aerial photography project to be flown in the early spring of 2011.

3.) Elevation Data Products and Topographic Base Data

Chippewa County is planning to acquire a 6" resolution photo along with a LIDAR data acquisition in order to attain 2 foot contours, county wide, in 2010. Digital elevation modeling (created from LIDAR data) in all formats will be used as necessary. There are no set plans to use one format over another as the practical usefulness of digital modeling is still emerging.

4.) Parcel Mapping.

The Land Records Department is in charge of digital tax parcel mapping. The mapping is being referenced to the Chippewa County geodetic grid by use of GPS survey of the public land survey corners that have been established. See 1.) Geographic Positioning Reference Frameworks. The mapping complies with the WLIA's Digital Parcel Mapping Standard. The layering of these maps includes but is not limited to the layering scheme as shown in the appendix. The parcel mapping is 100% complete county-wide. The parcel mapping is commonly used as a reference for title and land survey work.

5. Parcel Administration and Assessment Information

The plan is to continue developing a land information system that integrates property ownership and tax listing data with parcel maps using the county parcel identifying number (P.I.N.) see "CHIPPEWA COUNTY PARCEL NUMBERING SYSTEM" in the appendix. See 4.) Parcel Mapping.

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

The Land Records Department, by use of GPS, CAD and GIS systems, has developed a street, highway, and railroad centerline mapping system which incorporates road names and road classification (i.e. state or federal highway, county highway, town road, city or village street, county forest road and easements); along with other pertinent associated centerline data via GIS attribute data. This centerline network, based on the Chippewa County Grid System, can be used for a variety of purposes including address location, traffic analysis, pavement rating, accident location, highway project planning, etc.

In Chippewa County, all property Addresses (typically anywhere there is a physical structure) have a geographic Address Point (lat/long) associated with an Address. The Address Points are maintained in current GIS format. The property Addresses can be used for cross referencing purposes to look up individual land parcels.

The digital centerline data, property addresses & associated maps can be tied to various databases on the AS400 and PC servers to interact with and provide related information. This information is also used by the Sheriff's and Emergency Management Departments on a key 24x7 mapping application for use in both Landline and Wireless Enhanced 911 (E-911) along with other critical emergency management GIS functions. Address ranges follow 911 dispatch grid. The addressing system is fully integrated with the County's/City Master Street Address Guide (MSAG).

Both the road network and addressing system are local government compliant as well as compliant with the US Census Bureau and US Postal Service standards (see appendix).

7. Hydrography, Hydrology and Wetlands Mapping

See Section **B. Progress report on ongoing activities.** (7.)

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

See Section **B. Progress report on ongoing activities.** (5.)

9.) Land Use Mapping.

Chippewa County has acquired two LAN SAT (30m resolution) images (1992 & 1995), and has rectified and completed land cover classification mapping based upon this imagery. Chippewa County has acquired and rectified IRS-1C imagery and anticipates receiving annual updates of color satellite imagery provided by the USDA-FSA.

Both the existing land use and the planned land use mapping are complete and were completed using various reference materials and local data.

10.) Zoning Mapping.

In the past, the zoning maps were kept in a paper format and sometimes not necessarily kept up to date, with boundaries that were not easily measured which in a sense made it difficult to determine. The parcel mapping, as completed by the Land Records Department, has allowed the Planning and Zoning Department to place the zoning districts onto the individual parcels.

This procedure has made it easier for zoning staff to retrieve zoning district information at the click of the mouse and also allows for accurate measurements of where zoning districts end and begin.

In addition, the Planning and Zoning and Land Records Department have been working on a project to integrate all zoning correspondences, permits, etc. with the GIS system. A link has been developed by a private company, which will allow the retrieval of the information at the click of a button. The information will be hot-linked to a point theme and stored in a specific directory on the county servers.

All shoreland areas are mapped by digitizing from aerial photos or by using data from outside agencies. Floodplain mapping is handled using data received from FEMA. Environmental corridors, burial sites, archeological sites and historical\cultural sites have no bearing on County Zoning at this time.

11.) Election and Administrative Boundary System.

All districts (election, legislative, school) are complete and available to the public upon request. The municipal boundaries are also complete. All publicly owned lands are mapped and available to the public. All boundaries are local government compliant.

12.) Critical Infrastructure and Facility Management.

County highways are currently managed with a highway inventory and evaluation program which determines priorities for highway maintenance and improvements based

on condition of the road, functional classification and amount of traffic. Most local governments also utilize a highway or street management program. Local bridges (county, town and city) are managed through the bridge inspection and rating program which assigns each bridge a sufficiency number (rating) based on condition, loading, width, traffic, etc. These existing infrastructure management systems are included with the Highway Department public records under “Highways Inventory and Evaluation” and “Bridge Inspections.”

All emergency service districts and facilities are currently mapped and integrated into the 911 dispatch system. Utility information that was made available to the county has been also integrated into the dispatch system.

13.) Database Design and System Implementation

Chippewa County currently operates several land information relational databases on the AS-400. These include the tax listing database, tax financial database, and document imaging database, document recording database and the tract index database. In addition there are a number of personal computer databases, which reside in Land Records, Land Conservation, Emergency Government, Zoning, Forest Management, Maintenance and Highway. The goal is to tie these various databases to the digital maps through a geographic information system. The primary link between the databases would be the tax parcel identification number (P.I.N.). The intent of the plan is to gradually implement geo-database technology over the next five years.

F.) Public Access

As parcel mapping and GIS is built, Chippewa County will initiate data sharing arrangements with local and state agencies. This is an issue that will be discussed during Land, Forest and Parks Committee and Land Records Users Group meetings. This will be an evolving issue as data is created.

Under this institutional approach, each department will be responsible for defining which records are available to outside users, and for establishing the policies, procedures, and standards used for the management of that record.

The public currently can access document images (deeds, etc.) or tax listing and parcel data through the use of the internet at <http://www.co.chippewa.wi.us/> or by use of public terminals located in the Register of Deeds, Land Records and the Planning and Zoning office. The public has a right to view county property and tax data as defined by the Wisconsin open records law. The county adheres to this law. Mapping information is available to the public in hardcopy and digital format for nominal copying costs, as well as on the internet at the above address.

The Land Records Department sells data in digital (DXF, SHP, TIF, and DBF) on CD as well as hard copy format in addition to internet access. The internet access, <http://www.co.chippewa.wi.us/landrecords/index2.htm>, has much information available, such as

viewing survey maps, land corner restoration sheets and the parcel map GIS at no charge. The Land Records Committee and the Chippewa County Board have approved the fee schedule shown in the appendix.

The internet connections developed by Chippewa County have been paid for from the \$1 fee as established in Wis. Stats. 59.72 (5)(b)3.

Public Geographic Information System (GIS)

The public currently can access a map-based GIS and digital data through a county maintained, internet based web site at no charge. The web site address is:

<http://chippewawi.mapping-online.com/ChippewaCoWi/>

G. Integration and Cooperation

As the mapping, databases and G.I.S. are produced; Chippewa County has every intention to enter into an understanding with local municipalities, adjacent counties and state agencies. The Land, Forest and Parks Committee would approve of data sharing agreements with the above entities.

H. Communication, Education, Training and Facilitated Technical Assistance

Chippewa County Land Records Department currently has access to the internet, which allows for utilization of the Wisconsin Land Information Program clearinghouse and technical list server.

The Land, Forest and Parks Committee are made up of five County Board Supervisors. This Committee and staff of the Land Records Department meet once a month to discuss current activities dealing with land records and to plan for future projects. The Committee also provides guidance and insight into the implementation of the land records modernization plan. All meetings are open to the public and any that wish to attend are welcome to do so.

A Land Records Users Group which is made up of the department heads listed on page two meets on a regular basis to discuss current projects and plan long range goals. This is an informal forum in which each member is encouraged to state the needs of each department and to address problems when they arise. The Land Records Department coordinates the use of and training for the GIS/GPS equipment and software within county departments. The Land Information training funds are used to attend seminars and other technical training sessions in order to enhance the capabilities of staff.

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.

- 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).
- 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.

APPENDIX

Layer scheme of cadd tax parcel maps.

0-SCANNED	scanned or digitized images.
1-SECTION	section lines (LK 14, LT 8)
2-QTR_SEC	interior section lines (LK 11, LT 6)
3-PROPLINE	small parcels and R/W lines (LK 12, LT 0)
4-RD_NAME	street names (text color 2)
5-WATER	water (LK 9, LT 0)
6-H2O_NME	water names (text color 15)
7-ALT_PIN	alt pin numbers (text color 13)
8-PLT_NAME	plat names (text color 4)
9-HEADING	headings (text color 9)
10-DEED_REF	CSM and deed reference (text color 3)
11-SEC_NUM	section numbers (text color 15)
12-MEANDER	meander lines and broken parcel lines (LK 6, LT 2)
13-SPLITS	splits (LK 10, LT 0)
14-ZONING	zoning division lines (LK 2, LT 0)
15-THREAD	stream thread and lake shore boundaries (LK 12, LT 0)
16-TRANS	transportation codes (text color 15)
17-EASEMENT	50ft county easements (text color 6, LK 6)
21-ZONEDIST	zoning district (text color 15)
50-SEC_CORS	section corner control
51-CORP_LMT	corporate boundaries (LK 15, LT 8)
52-LEADERS	leaders (arrows and hooks)
55-TAR CORS	section corner control from targets & GPS 1M (PO, LK 12)
57-RR_CL	center line rail road (LK 13, LT 1)
58-HWY_CL	center line - reference line highway plans (LK 13, LT 1)
60-TARGETS	aerial triangulation targets
	NEW E911 ADDRESS MAPS:
	STREET = ST, AVENUE = AV, STATE HIGHWAYS = HY,
	COUNTY HIGHWAYS = CTY TK, ROAD = RD
71-TWP_CL	centerline township & city streets (LK 10, LT 0)
72-CTY_CL	centerline county highways (LK 15, LT 0)
73-FED_CL	centerline federal & state highways (LK 12, LT 0)
74-RD_NME	road name (text color 2)

Road names 0.12", Plat names 0.12", Block nos. 0.10", Lot nos. 0.08", PIN nos. 0.08"

CHIPPEWA COUNTY PARCEL NUMBERING SYSTEM

USE PINGIS FOR PARCEL MAPPING PIN NUMBER SEARCH

Digit	1	2	3	4	5	-	6	7	8	9	-	10	11	12	13	14	15	16	17	18	
Parcel No						-					-										
	West of P.M.	Town	Range				Sec	1/4-1/4				0 Metes & Bds 5 Gov't Lot 6 Plats 7CSM 9 Condominium				Blk			Lot	Split	

Chippewa County has an 18-digit number edited with 2 dashes for easier reading. All Parcels utilize 17 digits. The last digit is available for a split if two or more owners are located on the same lot.

The first five digits are an introduction to the general location of a parcel.

- Digit 1:** Every parcel number in Chippewa County begins with 2. The 2 indicates West of the prime meridian.
- Digit 2 & 3:** Indicate the Township Number. Chippewa Co. has five township numbers 28, 29, 30, 31, 32
- Digit 4 & 5:** Indicate the Range Number. Chippewa County has six range numbers 05, 06, 07, 08, 09, 10

Utilizing the first 5 digits brings one to a six-mile square divided into 36 section. Each section is one mile square and contains 640 acres.

- Digit 6 & 7:** Represents the Section Number. Sections are numbered from 01 through 36 for each six-mile square.
- Digit 8 & 9:** Represents Quarter-Quarter Number. The numbers 1,2,3 & 4 are used for the quarter-quarter to show definite locations.
1=NE 1/4; 2=NW 1/4; 3=SW 1/4; 4=SE 1/4
By combining the numbers 1,2,3 & 4 with each other, one can locate a parcel to the 40-acre square it lies in.

11=NE NE	21=NE NW	31=NE SW	41=NE SE
12=NW NE	22=NW NW	32=NW SW	42=NW SE
13=SW NE	23=SW NW	33=SW SW	43=SW SE
14=SE NE	24=SE NW	34=SE SW	44=SE SE

- Digit 10:** Indicates the type of parcel that is being described:
0 - is used for Metes & Bounds parcels with Digits 11,12 & 13 for a random split number. If a forty has never been split, it is known as a virgin forty and the number ends in 00000000 after the quarter-quarter number. If a parcel has been split off, the parent forty becomes 00020000.
5 - is used for Govt Lot that is located along meandered water or along a correctional line.
6 - indicates a Plat along with Digits: 11, 12, & 13 used for the plat number. All recorded plats have been assigned a number in order as recorded.
6 - Plat continued - Digits: 14 & 15 Blk# - Digits: 16 thru 18 Lot#'s & Splits.
7 - indicates the parcel is part of a Certified Survey Map along with Digits: 11, 12, 13 & 14 used for the map number. Digits: 15 thru 18 Lot#'s & Splits.
9 - indicates the parcel is a Condominium Unit along with Digits: 11 thru 18 used for structure, building & unit numbers.

Chippewa County Land Records Department

COPY AND DATA PRICE LIST

CSM	CSM's obtained from Register of Deeds
PLATS	PLATS obtained from Register of Deeds
Large Format Copies	\$ 5.00 per sheet
Plotted Map	\$ 10.00 per sheet
11" x 17" Prints	\$ 2.00 per sheet
Small Format Prints	\$ 1.00 per sheet
Additional P.O. Charge of	\$ 1.00 (when mailing copies)
CD of scanned corner monumentation	\$ 50.00
CD of scanned survey maps B,C,D,J,L	\$ 50.00
CD of scanned highway plans	\$ 50.00
CD of scanned section maps	\$ 50.00
CD of scanned old survey notes	\$ 50.00
CD of scanned township index maps	\$ 20.00
Digital copy of one Government Township (T_N R_W) or one Civil Township map:	\$ 50.00
Digital data special orders: (data sets not listed above)	\$ 50.00

Approved by the Land Records Committee: October 19, 2010
 Approved by the County Board: November 10, 2010 resolution 49-10
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UNITED STATES DEPARTMENT OF COMMERCE
Economics and Statistics Administration
U.S. Census Bureau
Regional Office
Westchester, IL 60154-5800

October 28, 2004

Mr. Mitchell Clark
GIS Coordinator
Chippewa County Land Records Dept.
711 North Bridge Street, Room 5
Chippewa Falls, Wisconsin 54729

CO55017
TED ID 507369

Dear Mr. Clark:

Thank you for providing the U.S. Census Bureau with your geospatial file for Chippewa County, Wisconsin. The Census Bureau has determined that the coordinate data contained in the road centerline file you provided meets the Census Bureau's positional accuracy standards for use in an automated update of the TIGER database.

The attached documents provide additional information on the road centerline file you provided.

- The first document outlines the procedures the Census Bureau used to evaluate and test the file you submitted for geographic accuracy.
- The second document contains detailed results of the evaluation based on CE95 standards.

Once the coordinate accuracy in the TIGER database has been updated using your geospatial file, we will provide you with an updated version of TIGER/Line® for your own use.

The Census Bureau appreciates and values your partnership and looks forward to working with you as we prepare for Census 2010. If you have any questions regarding the methods used to evaluate your file or the results of our evaluation, please contact Gail A. Krmeneč at (708) 562-1738 or Scott Deuel or Linda Gray at (708) 531-0553.

Sincerely,

Stanley D. Moore
Regional Director

Enclosures

U S C E N S U S B U R E A U
Helping You Make Informed Decisions

www.census.gov

Location of Chippewa County Data in AV_Guide Data Structure

