

A photograph of the Wisconsin State Capitol building, featuring a large dome and classical architecture, surrounded by green trees under a blue sky with white clouds.

Legislative Redistricting

Legislative Technology Services Bureau

Tony J. Van Der Wielen

GIS Manager

Applied Population Laboratory

University of Wisconsin - Madison

James Beaudoin

GIS Program Developer

The background of the slide features a photograph of the Wisconsin State Capitol building, showing its iconic dome and classical architecture. The building is partially obscured by the green foliage of trees in the foreground. The sky is blue with scattered white clouds.

The Legislative Redistricting Project

Wisconsin performs local, legislative and congressional redistricting following the decennial U.S. Census.

- **Components of Legislative Redistricting**
 - **U.S. Census Bureau Redistricting Data Program (RDP)**
 - **Local Redistricting**
 - **Legislative Redistricting**



The Legislative Redistricting Project

The U.S. Census Bureau's Redistricting Data Program

- **5 Phase Program**
 - Phase 1 : State Legislative District Project (2005 - 2006)
 - **Phase 2: Voting District/ Block Boundary Suggestions (2007 - 2009)**
 - Phase 3: Data Delivery (2010-2011)
 - Phase 4: Collection of Post Redistricting Plans (2012 - 2013)
 - Phase 5: Evaluation and Recommendations for Census 2020

The background of the slide features a photograph of the Wisconsin State Capitol building, a large neoclassical structure with a prominent dome, surrounded by green trees under a blue sky with scattered clouds.

The Legislative Redistricting Project

The U.S. Census Bureau's Redistricting Data Program

- Phase 1 : State Legislative District Project (2005 - 2006)
 - This program allowed states to submit current legislative district boundaries to the U.S. Census Bureau to be enumerated.
 - <http://factfinder.census.gov>
 - Census 2000 Tabulation of current Wisconsin Legislative Districts.
 - These district lines will also be enumerated for Census 2010.



The Legislative Redistricting Project

The U.S. Census Bureau's Redistricting Data Program

- Phase 2 : Voting District/Block boundary Suggestion Project (2007 - 2009)
 - This program allowed states to submit current or historic Voting Districts (Wards) to the U.S. Census Bureau.
 - The voting district lines will be held for Census 2010.
 - The voting districts submitted will be enumerated for Census 2010.
 - Historical Perspective
 - Historic Election Data can be used with Census 2010 data.
 - Phase 2: Verification is scheduled for March 2010

The Legislative Redistricting Project

The U.S. Census Bureau's Redistricting Data Program

- Phase 2 : Project NOTES



- TIGER Modernization

- **The Topologically Integrated Geographic Encoding and Referencing (TIGER)**

- System was developed in the late 1980's (1990 and 2000 Census)
 - All Geographic features used for the Decennial Census.
 - » Blocks, Block Groups, Tracts
 - » Streets, Streams, Railroads, Political Boundaries (Cities, Towns and Villages)
 - Positional Accuracy could be as far off as +/- 50 meters (+/-167 feet) before modernization.
 - Post modernization accuracy goal was set at +/- 7.6 meters (+/- 25 feet).
 - ESRI Shapefile format.



STATE OF WISCONSIN
TIGER STREETS 2004 VS. 2006 SE
WAUNAKEE, WI

 Streets TIGER 2006 SE
 Streets TIGER 2004

Legislative Technology Services Bureau
17 West Main Street
Suite 200
Madison, WI 53702
(608) 266-6640 Ext. 1

Source: U.S. Census Bureau's TIGER 2004
and U.S. Census Bureau's TIGER 2006 Second Edition
Projection: Wisconsin Transverse Mercator,
referenced to the North American Datum of 1983, 1991 adjustment.



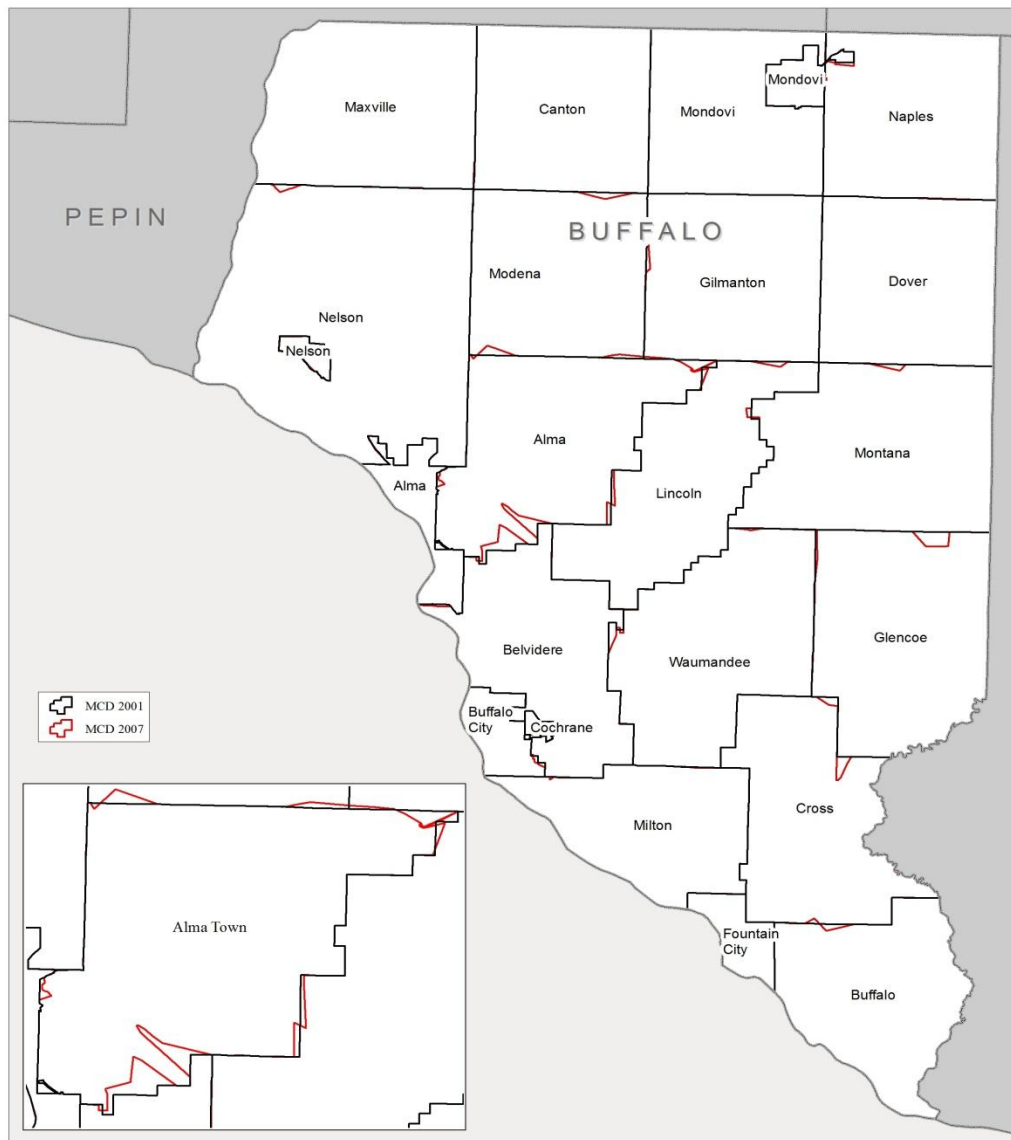
0 200 400 800 Feet

The Legislative Redistricting Project

The U.S. Census Bureau's Redistricting Data Program



- Phase 2 : Project NOTES
 - TIGER Modernization
 - Although positional accuracy has been enhanced there are some problems with the new TIGER dataset.
 - All 72 of the State of Wisconsin's Counties were not modernized.
 - Local dataset licensing
 - Line and boundary problems.
 - Reprocessing of 1159 counties.
 - Boundary Repair program
 - » Legislative district line problems
 - » Population Density problems



The background of the slide features a photograph of the Wisconsin State Capitol building, a large neoclassical structure with a prominent dome, surrounded by green trees under a blue sky with scattered clouds.

The Legislative Redistricting Project

The U.S. Census Bureau's Redistricting Data Program

- Phase 3: Delivery of Public Law 94-171 – Redistricting Data to State Liaisons
 - Tabulation Block Geography from TIGER 2010.
 - Tabulation Block Counts
 - Data will be received on or before April 1, 2011.
 - Data will be made available on our website (<http://legis.wisconsin.gov/ltsb/redistricting/districts.htm>)
 - And through the **WISE-LR** website. (<http://legis.wisconsin.gov/wiselr>)
 - Delivery of this data to the Legislature (and then to the counties) starts the process of local redistricting in Wisconsin.



The Legislative Redistricting Project

State of Wisconsin - Local Redistricting

- **180 Day Period For Local Officials Begins**
 - Start Date: April 1st 2011
 - First 60 days – Tentative County Supervisory Plans Created
 - Second 60 days – Municipal Wards Created
 - (Based on Tentative Supervisory Plan)
 - Final 60 days Final Supervisory and Ward Plans approved and submitted to Legislature.
- **Statewide Dataset Produced**
 - November 2011
 - Data distributed to both houses of the Legislature for creation of Legislative Redistricting Plans.
- **Public Access to Redistricting Data**
 - January 2012



The Legislative Redistricting Project

State of Wisconsin - Local Redistricting

- **Phase 4 of the Redistricting Data program - PL 94-171 Data**
 - Data will be received before April 1, 2011.
- **180 Day Period For Local Officials Begins**
 - Start Date: April 1st 2011
 - First 60 days – Tentative County Supervisory Plans Created
 - Second 60 days – Municipal Wards Created
 - (Based on Tentative Supervisory Plan)
 - Final 60 days Final Supervisory and Ward Plans approved and submitted to Legislature.
- **Statewide Dataset Produced**
 - November 2011
 - Data distributed to both houses of the Legislature for creation of Legislative Redistricting Plans.
- **Public Access to Redistricting Data**
 - January 2012

A photograph of the Wisconsin State Capitol building, featuring a large dome and classical columns, surrounded by green trees under a blue sky with white clouds.

Legislative Redistricting

Legislative Technology Services Bureau

Tony J. Van Der Wielen

GIS Manager

Applied Population Laboratory

University of Wisconsin - Madison

James Beaudoin

GIS Program Developer