

Welcome to
WISE-Decade

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2020
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June 2015

WISE-Decade: Consolidated BAS & Data Collection Mapping Tool

WISCONSIN STATE LEGISLATURE
LEGISLATIVE TECHNOLOGY SERVICES BUREAU - GIS

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Welcome to the WISE-Decade Website

What is WISE-Decade?

WISE-Decade is a suite of mapping tools that will assist counties and municipalities with legislative and legal requirements required by state statutes. These applications will help streamline and simplify these required processes, such as local redistricting and census data program participation.

What is BAS/CBAS?

The U.S. Census Bureau conducts the Boundary and Annexation Survey (BAS) annually to collect information about selected legally defined geographic areas. The BAS is used to update information about the legal boundaries and names of all governmental units in the United States.

To reduce the burden on local governments, and avoid the duplication of efforts, the Census Bureau offers consolidation agreements under the 'Consolidated BAS' (CBAS) program to counties that are interested in submitting boundary changes on behalf of the legal governments (incorporated places and minor civil divisions) within their jurisdiction. Once a local government agrees to the consolidation, the local government will no longer receive BAS materials from the Census. Instead, the county BAS respondent will be solely responsible for providing the Census Bureau with all boundary updates.

Why Create WISE-Decade CBAS?

Wisconsin local and legislative redistricting is mandated by our state's constitution to use U.S. Census tabulated geography for creating districts. Historically, most counties and municipalities have not participated in BAS; therefore Census TIGER lines do not correctly align with local data in Wisconsin. To minimize the effort it takes for locals to submit data to the Census, we had previously created a desktop ArcGIS ArcMap Add-In that was widely well-received, but providing data and application updates for the user base has been difficult. To further minimize local efforts, and eliminate these types of issues, we have created a web based application utilizing ArcGIS Server and the ArcGIS JavaScript API. Two important notes:

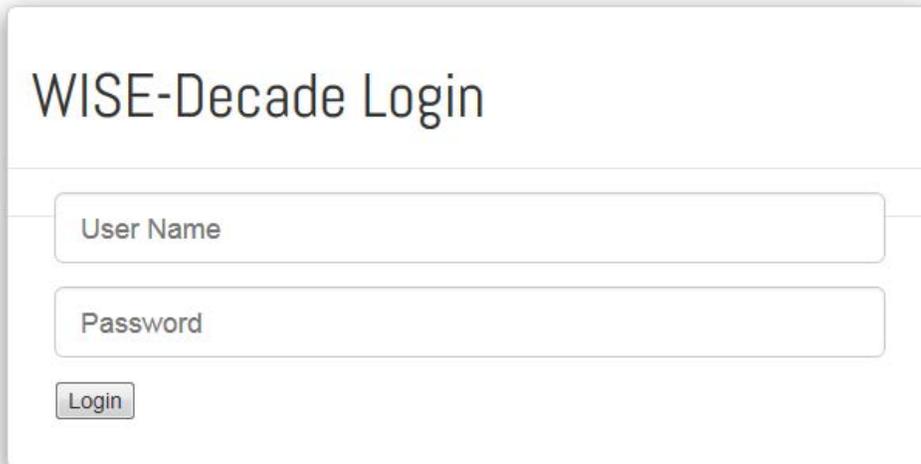
1. This will not change your local dataset, it will only compare it the U.S. Census Bureau's data.
2. This will not submit a change file the U.S. Census Bureau, it will only create one based on a comparison of your local data, and you will be responsible for forwarding it to the Census.

What does the CBAS/Data Collection application do?

It compares U.S. Census Bureau geography with local municipal data to generate a symmetrical difference, automatically enter the required attributes, filter for Census defined acceptable changes, and flag potential annexations not yet submitted to, or absorbed by, the U.S. Census Bureau.

Login to WISE-Decade Website

Simply enter in the **username** and **password** that was supplied to you for your county. This login information will be important to keep on file as you will need this **twice a year** for CBAS/data submissions. Additionally future tools from LTSB, such as WISE-LR will be deployed via the WISE-Decade dashboard.



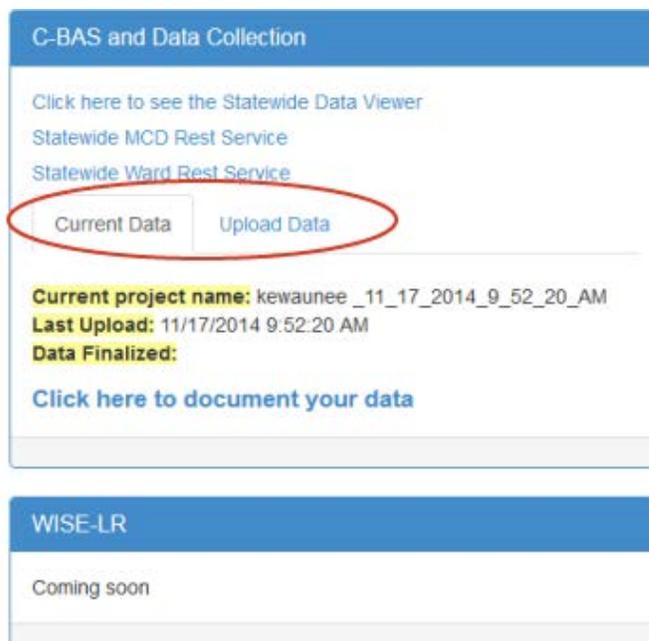
The image shows a login form titled "WISE-Decade Login". It contains two input fields: "User Name" and "Password". Below the fields is a "Login" button.

WISE-Decade Dashboard

The dashboard is the central location for all applications within the WISE-Decade suite of tools. Look under the section labeled CBAS/Data Collection. Here you will see **two tabs**: One for looking at current data, which is data you have already uploaded into the system, and one for uploading new data into the system.

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The screenshot shows the WISE-Decade dashboard. The top section is titled "C-BAS and Data Collection" and contains links for "Statewide Data Viewer", "Statewide MCD Rest Service", and "Statewide Ward Rest Service". Below these links are two tabs: "Current Data" and "Upload Data", which are circled in red. The "Current Data" tab is active, showing the following information: "Current project name: kewaunee_11_17_2014_9_52_20_AM", "Last Upload: 11/17/2014 9:52:20 AM", and "Data Finalized:". A link "Click here to document your data" is also present. The bottom section is titled "WISE-LR" and contains the text "Coming soon".

Uploading Data into the System

Shapefile (.SHP) Requirements

There are some requirements in order to submit a shapefile to WISE-Decade. First, **four fields** must be present in the shapefile:

1. **COUSUBFP** (Unique 5 digit number that designates the municipality within the US Census Bureau’s TIGER data)
2. **WARDID** (Unique ward number)
3. **SuperID** (Unique supervisory district number)
4. **AlderId** (Unique aldermanic district number).

*Note: The shapefile must also be in a **zip file** to be uploaded in the WISE-Decade system.

Ward_Template						
FID	Shape *	COUSUBFP	WardId	SuperId	AlderId	
0	Polygon	00275	1	1	1	
1	Polygon	00275	4	1	1	
2	Polygon	00275	2	1	2	
3	Polygon	00275	3	1	2	
4	Polygon	00275	4	2	3	
5	Polygon	00275	5a	2	3	
6	Polygon	00275	5b	2	3	
7	Polygon	00300	1	2	1	
8	Polygon	00300	2	2	1	
9	Polygon	00300	3	3	2	
10	Polygon	00300	4	3	2	

Optional Fields

You can include optional fields with your submissions (like school or water districts). We will use these optional fields to create additional statewide layers.

Ward_Template							
FID	Shape *	COUSUBFP	WardId	SuperId	AlderId	SchoolId	
0	Polygon	00275	1	1	1	Acme School District	
1	Polygon	00275	4	1	1	Acme School District	
2	Polygon	00275	2	1	2	Acme School District	
3	Polygon	00275	3	1	2	Acme School District	
4	Polygon	00275	4	2	3	Acme School District	
5	Polygon	00275	5a	2	3	Acme School District	
6	Polygon	00275	5b	2	3	Acme School District	
7	Polygon	00300	1	2	1	Packer School District	
8	Polygon	00300	2	2	1	Packer School District	
9	Polygon	00300	3	3	2	Packer School District	
10	Polygon	00300	4	3	2	Packer School District	

Uploading Data

To upload data, click the 'Upload Data' tab. Enter your email address, and click browse to navigate your computer for the zipped (.zip) shapefile to enter it into the WISE-Decade system.

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C-BAS and Data Collection

[Click here to see the Statewide Data Viewer](#)
[Statewide MCD Rest Service](#)
[Statewide Ward Rest Service](#)

Current Data Upload Data

Zip up your shapefile and upload it here.

Enter your email:

Select a zip file:
 No file selected.

WISE-LR

Coming soon

Once you have selected your data for upload, you should get a confirmation that the upload was successful. The automated processing of the data may take some time; perhaps several hours based on website usage. Once the process has completed, you will receive an email informing you that you may start documenting annexations/deannexations.

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C-BAS and Data Collection

[Click here to see the Statewide Data Viewer](#)
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[Statewide Ward Rest Service](#)

Current Data Upload Data

You were successful in submitting your geography. You should get an email shortly when your data is ready to be documented.

WISE-LR

Coming soon

Getting Ready to Document Data within the System

The goal for users is to locate and document any annexations or deannexations that are not currently in the U.S. Census Bureau's geographic data.

The application will allow users to enter in a **resolution, ordinance, local law, or state level action number** along with an **effective date of the annexation**. This information will then be saved in the proper format. Documentation will automatically be applied to future creations of BAS change files, if the change has not yet been updated in the Census data.

To start documenting, log into the system as you did during the upload process. Once you reach the dashboard you should see a 'Current Data' tab with information about your last upload. From there follow the link "Click here to document your data".

The screenshot shows a dashboard for 'Wise-Decade'. On the left, there is a graphic with the text 'Welcome to WISE-Decade' and a vertical stack of years: 1980, 1990, 2000, 2010, 2020, 2030, and 2040. The year 2020 is the largest and most prominent. On the right, there is a main content area with a blue header 'C-BAS and Data Collection'. Below the header, there are several links: 'Click here to see the Statewide Data Viewer', 'Statewide MCD Rest Service', and 'Statewide Ward Rest Service'. There are two tabs: 'Current Data' and 'Upload Data'. The 'Current Data' tab is selected and highlighted with a red oval. Below the tabs, there is a summary of the current project: 'Current project name: kewaunee_12_4_2014_1_40_44_PM', 'Last Upload: 12/4/2014 1:40:44 PM', and 'Data Finalized:'. Below this summary is a link that says 'Click here to document your data'. At the bottom of the dashboard, there is a blue header 'WISE-LR' and the text 'Coming soon'.

Documenting Data within the System

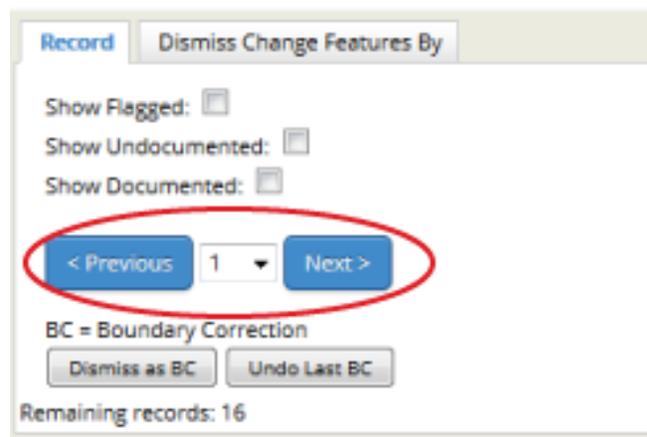
After following the “Click here to document your data” link, you will arrive at the main page for documenting annexations/deannexations.

Your map will be automatically zoomed in to the first change feature within the collection of polygons. You may zoom in and out, and interact with the map like any other web mapping application, such as ‘Google Maps’. The base map may also be toggled to a ‘Satellite’ layer by clicking the square in the upper right hand corner of the map.



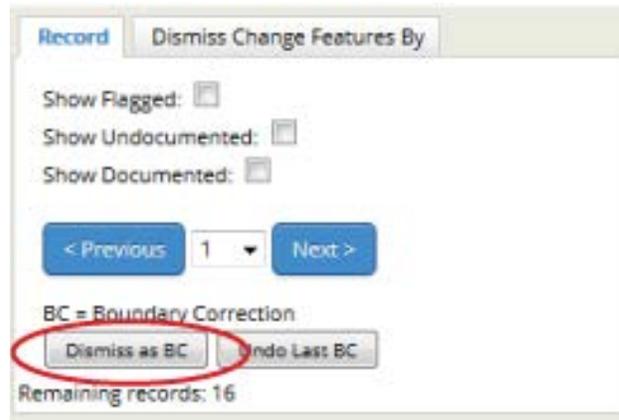
The system works with a list of change polygons that were created from processing your input data and the Census BAS MCD data. The **former** and **target municipality** (listed at the bottom of the documentation tab) will indicate which municipality the change area is being moving from and to.

To move between change polygons you may click the ‘Previous’ or ‘Next’ buttons, or simply select a change polygon ID from dropdown.



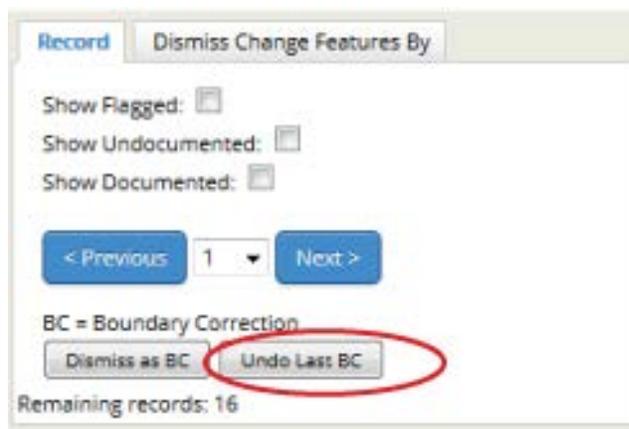
If a change record is not an annexation/deannexation, you may remove it from the list of records by clicking the '**Dismiss as BC**' (Boundary Correction).

*It is important to note that this does NOT delete the record; it only hides it in the list of changes, which are potentially annexations.



You may undo the last BC (Boundary Correction) by clicking 'Undo Last BC'. If you keep pressing the '**Undo Last BC**', it will undo each successive BC.

*Additionally, you may always add back individual IDs by entering the ID and clicking the '**Add back ID**' button.



There are other tools from dismissing boundary changes, may be found under the tab 'Dismiss Change Features By'. These tools help remove records that are **NOT** potential candidates for annexations or deannexations. This will reduce your remaining records for review.

Record **Dismiss Change Features By**

Town to Town: City/Village to Town:

Out of Entity: **By Municipality**

Add back ID

Reset Dismissals

Remaining records: 16

You may filter out changes that go from:

1. Town to Town
2. City/Village to Town
3. Out of Entity (Usually from or to water bodies, or in/out of the county/state)
4. Select specific municipalities

Just click the check boxes and these features will automatically be removed from your selections. There is also a 'Reset Dismissals' button which will remove all work thus far, and start from the beginning.

Entering and Saving Documentation

To document a change feature, click on the 'Documentation' tab (if it's not already selected). Enter in the appropriate legal document information (usually an ID number) along with an effective date for the annexation or deannexation. Then simply click '**Save**'. This will save the documentation on our servers for future reference.

Documentation Legend Layers

Ordinance #: 12345

Resolution

Local Law

State Level Action

Other

Effective Date: 12/05/2014

Save

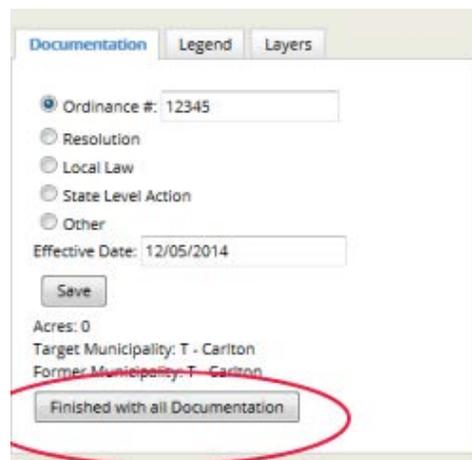
Acres: 0
Target Municipality: T - Carlton
Former Municipality: T - Carlton

Historical Annexation Points

There is a point layer that is displayed on the screen. When you mouse over one of the point features, an information box will appear. These points are annexations that have been entered into our system in the past; however the Census has yet to make the change. Usually this is an annexation that has been entered during the first submission period in January, and the update has not yet been made when you return during the July period. You do **NOT** need to re-enter this information into the system. The next cycle of updating by the Census Bureau should incorporate the change.

Finished with All Documentation and Submit

Once you have completed all documentation and would like to create all the necessary files for submission to the U.S. Census Bureau, click **“Finished with All Documentation”**.



The screenshot shows a web form with three tabs: "Documentation", "Legend", and "Layers". The "Documentation" tab is active. It contains the following fields and options:

- Radio button selected: Ordinance #: 12345
- Radio button: Resolution
- Radio button: Local Law
- Radio button: State Level Action
- Radio button: Other
- Text field: Effective Date: 12/05/2014
- Button: Save
- Text: Acres: 0
- Text: Target Municipality: T - Carlton
- Text: Former Municipality: T - Carlton
- Button: Finished with all Documentation (circled in red)

A confirmation email will be sent indicating that processing has been completed, along with an attachment of the change. If the attachment is filtered out by your email system, a copy of the file will also be available at a given link on our FTP server for download. You must submit this file to the U.S. Census CBAS program for updates to be accepted into the Census data.

*****Important*****

All data must be uploaded through the new Census Bureau's Secure Web Incoming Module (SWIM) at <https://respond.census.gov/swim/>. The first time you submit data (for this or any other Census program) you will need to create an account. This information should be sent to the Census Bureau after the spring data collection (Consolidated Boundary and Annexation Survey).

Questions or Comments?

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