

The 2020 Local Redistricting Project

WISE-LR Software & Pilot



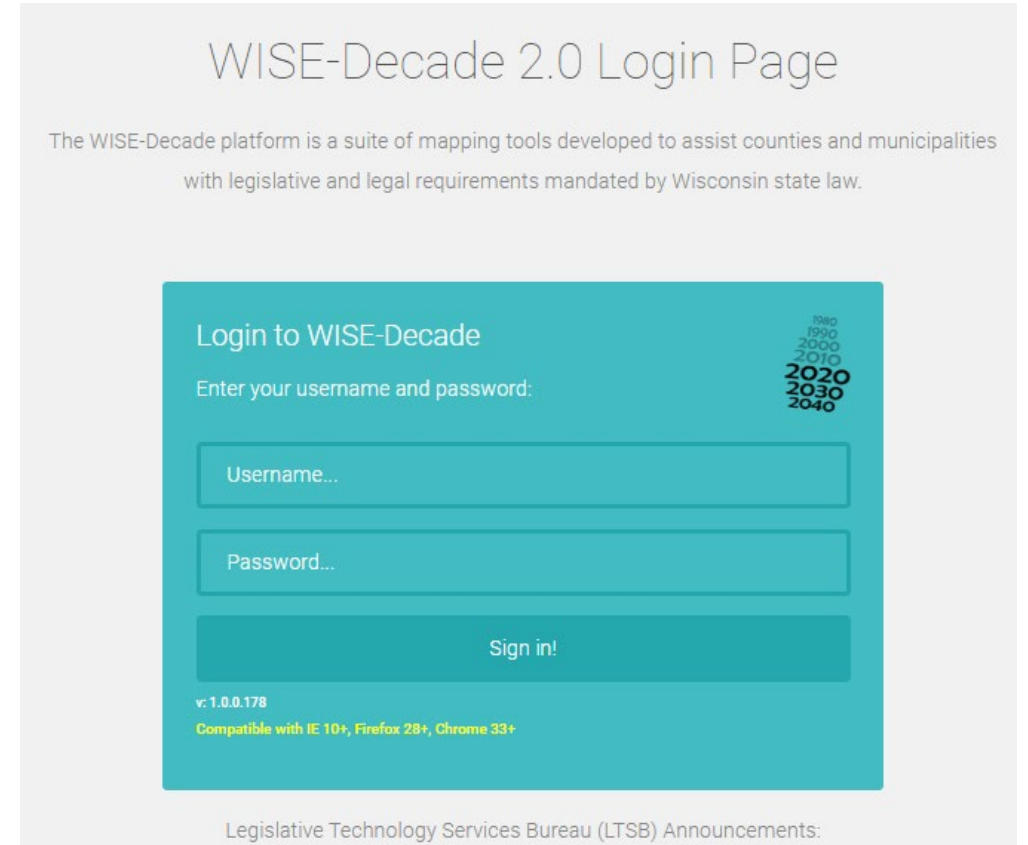
Legislative Technology Services Bureau

Ryan Squires
Grace White
Zach Robinson
Colleen Hermans

GIS Manager
Senior GIS Analyst
GIS Analyst
GIS Analyst/Developer

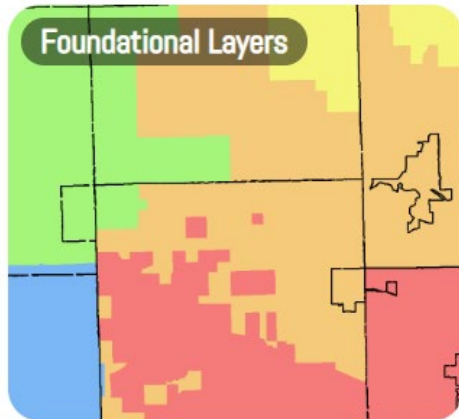
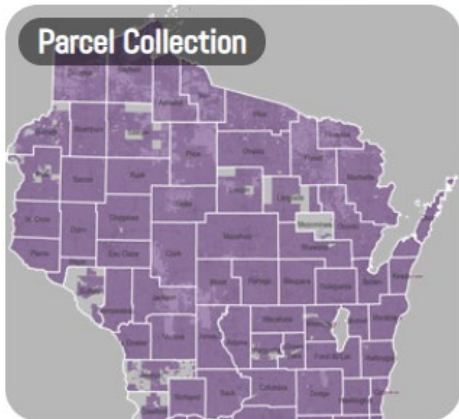
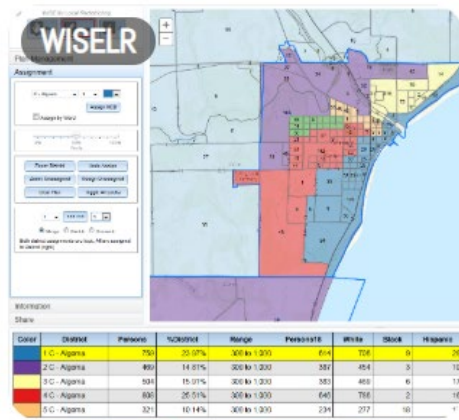
Logging into WISE-LR

- Username for every user is your county name
 - e.g. “Dane”, “Iowa”, “Eau_Claire”
- Normal WISE-Decade Password
 - Allows access to entire WISE-Decade platform
 - Sent to County Clerk, LIO, & their designees twice a year for BAS/Ward, Parcel, Foundational layer collections.
- WISE-LR Only Password
 - Only allows access to the WISE-LR system
 - Send to Municipal users, or any County user outside of the County Clerk and LIO. This is to ensure that only designated county officials may change or submit to unrelated programs.

A screenshot of the WISE-Decade 2.0 Login Page. The page has a light gray background. At the top, it says "WISE-Decade 2.0 Login Page". Below that, a paragraph states: "The WISE-Decade platform is a suite of mapping tools developed to assist counties and municipalities with legislative and legal requirements mandated by Wisconsin state law." The main content is a teal-colored login form. The form has the title "Login to WISE-Decade" and a sub-header "Enter your username and password:". There are two input fields: "Username..." and "Password...". Below the fields is a teal button labeled "Sign in!". At the bottom left of the form, it says "v.1.0.0.178" and "Compatible with IE 10+, Firefox 28+, Chrome 33+". At the bottom right of the form, there is a vertical stack of years: 1980, 1990, 2000, 2010, 2020, 2030, 2040. Below the form, the text "Legislative Technology Services Bureau (LTSB) Announcements:" is visible.

WISE-Decade and WISE-LR URL

<https://wisedecade.legis.wisconsin.gov>



0 Confirm Block Lines
 Status: In Progress
 Start Date: 3/10/2020
 Due Date: ASAP

1 Supervisory Districts
 Status: Pending Stage 0
 Start Date: 3/10/2020
 Due Date: 5/9/2020

2 Municipal Wards
 Status: Pending Stage 1
 Tentative Start Date: 5/9/2020
 Tentative Due Date: 7/8/2020

3 Reconciliation
 Status: Pending Stage 2
 Tentative Start Date: 7/8/2020
 Tentative Due Date: 9/6/2020

A Aldermanic Districts
 Status: Pending Stage 3

Stage 0: Confirm Block Boundaries
 The County Land Information Officer (LIO) must confirm the final U.S. Census block geometry before redistricting tools will be released. [Census Blocks Viewer](#) (Read-only viewer)

- The 60 day clock for Stage 1 begins NOW. No other plans can be drawn until the LIO has confirmed their blocks.
 - Therefore, the longer it takes the LIO to review, edit (if they choose) and CONFIRM the final geography of the blocks, the less time there is for the drafting of Supervisory Districts in Stage 1.
- Per Wisconsin State Statute: If a block is affected by an annexation or detachment which establishes a municipal boundary that subdivides the block, the municipalities in which the block is contained shall incorporate only the portion of the block contained within their boundaries in their division ordinances or resolutions. [Section 5.15 (2)(g)]

LIOs may use the Stage 0 "Split Blocks" function to split the U.S. Census Blocks to correct any majorly egregious boundary corrections or update any missing annexations, which ideally will have only occurred between the January 2020 BAS submission and the Census' final April 1, 2021 delivery of the PL 94-171 block population geography and numbers.

- This stage is NOT meant for correcting minor geographic conflation errors.
- Counties that wish to split a block for any reason other than a change in municipal boundary should contact LTSB directly.
- Any annexations that have occurred prior to redistricting should be addressed only at this time.
- Be advised that once the LIO confirms the block geography THIS DATA IS LOCKED.

On rare occasions, census blocks can be split in the middle of the redistricting process. Reopening Stage 0 will interrupt services so that no other users in the county can use the system during that time. Stage 0 should only be reopened for the following reasons:

- An annexation occurred after the start of redistricting
- Balance Aldermanic District [Section 5.15 (2)(c)]
- Balance Supervisory District
 - [Section 59.10 (2)(a)] - Milwaukee
 - [Section 59.10 (3)(b)1] - Other Counties

Municipal Boundaries from most recent BAS Submission

Use BAS Submission municipal boundaries to split the 2020 US Census Blocks

Most Recent BAS Submission: 1/29/2020 2:15:48 PM
 Block Split Last Initiated On: 3/10/2020 1:06:33 PM
 Current Status: PENDING

Process Initiated. Your LIO will receive an email when the processing has been completed.

Confirm Block Boundaries

LIO Confirmation Code:

WISE-LR Administrator

Admin console that lists the five potential stages of local redistricting. Includes status of stage and specific deadline for each stage.

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 Status: In Progress

Start Date: 3/10/2020
 Due Date: ASAP

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Start Date: 3/10/2020
 Due Date: ASAP

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Start Date: 3/10/2020
 Due Date: 5/9/2020

2 Municipal Wards
 Status: Pending Stage 1

Tentative Start Date: 5/9/2020
 Tentative Due Date: 7/8/2020

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[Census Blocks Viewer](#)
 (Read-only viewer)

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 - [\[Section 59.10 \(2\)\(a\)\] - Milwaukee](#)
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Municipal Boundaries from most recent BAS Submission

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 Most Recent BAS Submission: 1/29/2020 2:15:48 PM
 Block Split Last Initiated On: 3/10/2020 1:06:33 PM
 Current Status: PENDING

[Review & Confirm Split Blocks](#)

Process Initiated. Your LIO will receive an email when the processing has been completed.

Confirm Block Boundaries

LIO Confirmation Code:

Stage 0: Confirm Block Boundaries

WISE-LR Stage 0: Split US Census Blocks - Kewaunee County

Help PDF WISE-LR Admin

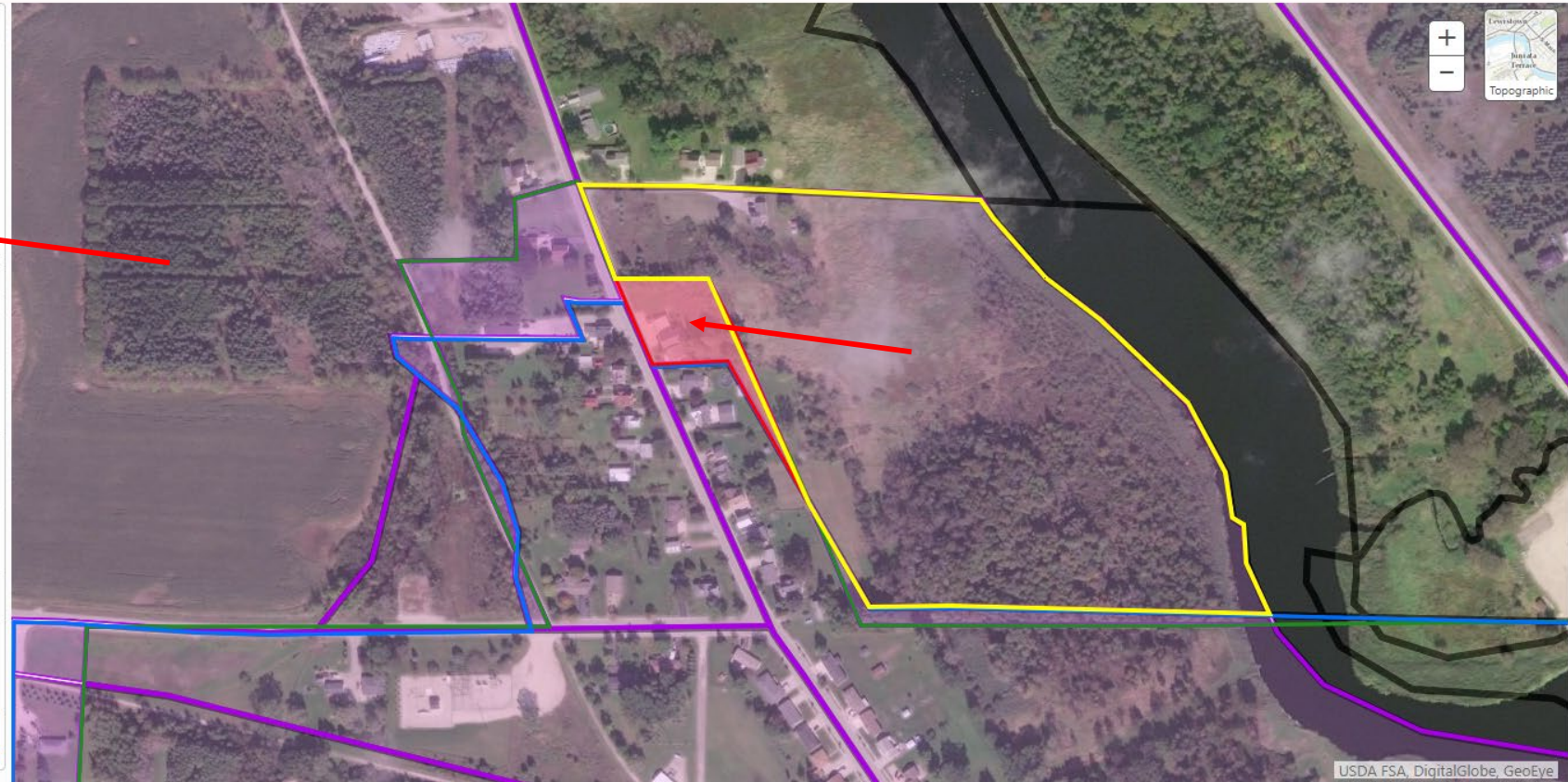
Navigate Split Blocks

Potential Block Splits: 121
 Not Verified: 121 | Rejected: 0 | Verified: 0

550619602003054 Split: 01

Color	Description
Black	Blocks
Purple	Blocks with possible splits
Yellow	Selected block (Area remaining in current CTV)
Red	Selected area of split block to verify or reject (Area changing CTV)
Green	Current municipal boundary (county-submitted)
Blue	Census municipal boundary

Show Parcels
 Label Parcels



Status: -Not Verified-

BORDER	COUSUBFP	NAME	CTV	PERSONS	WHITE	BLACK	HISPANIC	ASIAN	AMINDIAN	PISLAND	OTHER	OTHERMLT	PERSONS18	WHITE18	BLACK18	HISPANIC18	ASIAN18	AMINDIAN18	PISLAND18	OTHER18	OTHERMLT18
	00600	Ahnapee	T	7	6	0	0	0	1	0	0	0	7	6	0	0	0	1	0	0	0
	01000	Algoma	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Totals:		7	6	0	0	0	1	0	0	0	7	6	0	0	0	1	0	0	0

Stage 1: Tentative Supervisory District Plan

During Stage 1, counties have a maximum of 60 days to create a tentative Supervisory District plan.

A Supervisory District plan is created by grouping US Census blocks together.

0 Confirm Block Lines
 Status: Complete
 Start Date: 3/10/2020
 Completed Date: 3/10/2020

1 Supervisory Districts
 Status: In Progress
 Start Date: 3/10/2020
 Due Date: 5/9/2020

2 Municipal Wards
 Status: Pending Stage 1
 Tentative Start Date: 5/9/2020
 Tentative Due Date: 7/8/2020

3 Reconciliation
 Status: Pending Stage 2
 Tentative Start Date: 7/8/2020
 Tentative Due Date: 9/6/2020

A Aldermanic Districts
 Status: Pending Stage 3

Stage 1: Tentative Supervisory District Plan

During stage 1, counties have a maximum of 60 days to create a tentative Supervisory District plan.

- A Supervisory District plan is created by grouping US Census blocks together [Section 59.10(3)(b)1]
- Municipalities must create wards entirely within a single Supervisory District.
- Supervisory Districts must be contiguous and "substantially equal in population" [Section 59.10(2)(a)]
- Multiple plans may be created, but only one final plan can be submitted.

The county board is required to submit a tentative county supervisory district plan to each municipal governing body in the county. The county board is required to hold a public hearing on the tentative plan. If a municipality needs to be divided and placed in more than one supervisory district, the board is to indicate the approximate location of the territory from which a ward is sought and the approximate population of the ward.

Total County Population: 16,157
 Maximum Number of Supervisors: 21
 [Section 59.10(3)(a)]

Create New or Load Existing Plan

--New Plan--

Create New Plan New Plans Remaining: 200

Plan Name:

District Count:

(This number may be changed later)

Email Address:

Plan Password:

Confirm Plan Password:

Start with:

Stage 2: Municipal Ward Plans

0 Confirm Block Lines
 Status: Complete
 Start Date: 2/17/2020
 Completed Date: 2/17/2020

1 Supervisory Districts
 Status: Complete
 Start Date: 2/17/2020
 Completed Date: 2/17/2020

2 Municipal Wards
 Status: In Progress
 Start Date: 2/17/2020
 Due Date: 4/17/2020

3 Reconciliation
 Status: Pending Stage 2
 Tentative Start Date: 4/17/2020
 Tentative Due Date: 6/16/2020

A Aldermanic Districts
 Status: Pending Stage 3

Stage 2: Municipal Ward Plans

During Stage 2, municipalities with over 1,000 people have a maximum of 60 days following the receipt of the proposed county supervisory district to create their ward boundaries. [County-Wide Map Viewer](#)

- Wards must be entirely within a single supervisory district.
- Although municipalities are encouraged to try to fit their wards within the supervisory districts given to them (from Stage 1), municipalities can disagree and submit their own plan(s).
- Wisconsin State statutes dictates that the range of the allowable population within each ward is based on the total population of the municipality. This is built into the drawing tool. [\[Section 5.15\(2\)\(b\)\]](#)
- Wards must reflect changes in population: [\[Section 5.15\(1\)\(a\)3\]](#), changes in minority population: [\[Section 5.15\(1\)\(a\)2\]](#), changes in municipal boundaries: [\[Section 5.15\(1\)\(b\), \(2\)\(f\)\]](#), and facilitate the creation of aldermanic districts of equal population [\[Section 5.15\(2\)\(bmi\)\]](#).
- In 'Stage 3: Reconciliation', municipalities and counties will have the opportunity to reconcile any conflicting boundaries that would cause a ward to be divided into multiple supervisory districts. [\[Section 59.10\(3\)\(b\)2\]](#)

Select Municipality:
 ALBION, Town of

Create New or Load Existing Plan
 --New Plan--

Create New Plan New Plans Remaining: 68

Plan Name:

District Count:

(This number may be changed later)

Email:

Plan Password:

Kewaunee County: 7 of 14 municipalities have an approved plan, or a population less than 1,000 persons.

Municipality Status:
 View Required Only
 View Incomplete Only

KEY: Incomplete Complete Not Required

AHNAPEE, Town of
 Approved On:
 Approved By:
 Ordinance/Legal ID:

ALGOMA, City of
 Approved On: Tuesday, February 18, 2020
 Approved By: Mrs. Peacock (email@organization.gov)
 Ordinance/Legal ID: ABC-123 [View Plan](#)

CARLTON, Town of
 Approved On: Tuesday, February 18, 2020
 Approved By: Professor Plum (name@organization.gov)
 Ordinance/Legal ID: ABC-123 [View Plan](#)

CASCO, Town of
 Approved On:
 Approved By:
 Ordinance/Legal ID:

CASCO, Village of
 Approved On:
 Approved By:
 Ordinance/Legal ID:

Stage 2 will end automatically when the last required municipality has confirmed their ward plan.
 Aldermanic Districts may be drawn at any time once a municipal ward plan has been approved. However, it is recommended that Aldermanic Districts are created after *Stage 3: Reconciliation*.

Stage 3: Reconciliation

0 Confirm Block Lines
 Status: Complete
 Start Date: 2/18/2020
 Completed Date: 2/18/2020

1 Supervisory Districts
 Status: In Reconciliation
 Start Date: 2/18/2020
 Completed Date: 2/18/2020

2 Municipal Wards
 Status: In Reconciliation
 Start Date: 2/18/2020
 Completed Date: 2/18/2020

3 Reconciliation
 Status: In Progress
 Start Date: 2/18/2020
 Due Date: 4/18/2020

A Aldermanic Districts
 Status: Pending Stage 3

Stage 3: Reconciliation of the Supervisory Districts and Municipal Wards

The third 60-day stage requires counties to adopt final supervisory district plans and cities to establish aldermanic district plans.

[County-Wide Map Viewer](#)

- If an approved municipal ward plan contains any ward that is not entirely within a single supervisory district of the plan approved in stage 2, then that municipality will be shown as "invalid" below. Municipal wards must nest within County Supervisory Districts.
- To correct conflicts between the supervisory districts and municipal wards, either return to 'Stage 1: Supervisory Districts' to confirm a new Supervisory District Plan or 'Stage 2: Municipal Wards' to confirm a new ward plan. When all confirmed municipal wards nest properly within the approved county supervisory district plan, the County Clerk may submit the final version of the wards to the State Legislature by entering their confirmation code.
- Aldermanic Districts may be drawn at any time once a municipal ward plan has been approved. However, it is recommended that Aldermanic Districts are created after Stage 3: Reconciliation.

Kewaunee County: 13 of 14 municipal ward plans are valid with approved supervisory plan

KEY: Invalid Valid

LUXEMBURG, Town of

Approved On: Tuesday, February 18, 2020
 Approved By: Mrs. White (white@organization.gov)
 Ordinance/Legal ID: 123-XYZ

[View Plan](#)

LUXEMBURG, Village of

Approved On: Tuesday, February 18, 2020
 Approved By: Colonel Mustard (mustard@organization.gov)
 Ordinance/Legal ID: ABC-123

[View Plan](#)

MONTPELIER, Town of

Approved On: Tuesday, February 18, 2020
 Approved By: Rose Nylund (rose@organization.gov)
 Ordinance/Legal ID: XYZ-456

[View Plan](#)

PIERCE, Town of

Approved On:
 Approved By:
 Ordinance/Legal ID:

RED RIVER, Town of

Approved On: Tuesday, February 18, 2020
 Approved By: Blanche Devereaux (blanche@org.gov)
 Ordinance/Legal ID: XYZ-789

[View Plan](#)

Confirm Final Boundaries

County Clerk Confirmation Code:

[Confirm Final Plans](#)

Stage A: Aldermanic Districts

0 Confirm Block Lines
Status: Complete
Start Date: 2/18/2020
Completed Date: 2/18/2020

1 Supervisory Districts
Status: Complete
Start Date: 2/18/2020
Completed Date: 2/18/2020

2 Municipal Wards
Status: Complete
Start Date: 2/18/2020
Completed Date: 2/18/2020

3 Reconciliation
Status: Complete
Start Date: 2/18/2020
Completed Date: 2/18/2020

A Aldermanic Districts
Status: In Progress

Stage A: Aldermanic Plans

Aldermanic Districts are created by grouping confirmed municipal wards (from Stage 2). [County-Wide Map Viewer](#)

- Aldermanic Districts may be drawn at any time once a municipal ward plan has been approved.
 - However, it is recommended that Aldermanic Districts are created after Stage 3: Reconciliation.
 - If a new version of municipal wards are confirmed, any aldermanic plans based on the prior wards may be invalid as well.
- Alteration of aldermanic districts [\[Section 62.08\]](#)

Select Municipality:
PIERCE, Town of

Create New or Load Existing Plan
--New Plan--

Create New Plan New Plans Remaining: 87

Plan Name:

District Count:

(This number may be changed later)

Email:

Plan Password:

Confirm Plan Password:

Start with:
--Blank Plan--

Confirmation Credentials – Confirming a Plan

- Provided by LTSB to LIO, County Clerk, and Municipal Clerks and is unique to that single individual.
- Used to officially confirm Supervisory, Municipal and Aldermanic Plans once adopted, and to verify US Census Block Geography
 - Plan's Ordinance or Legal ID required to confirm
 - Only the LIO's code will work to confirm block lines in Stage 0



Tentative Supervisory Plan: Brown County

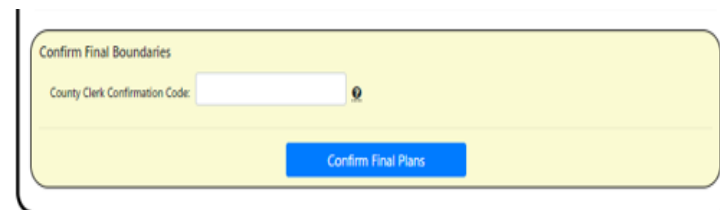
Select Final Plan

Enter Ordinance/Legal ID:

Confirm Supervisory Plan

County Clerk Confirmation Code:

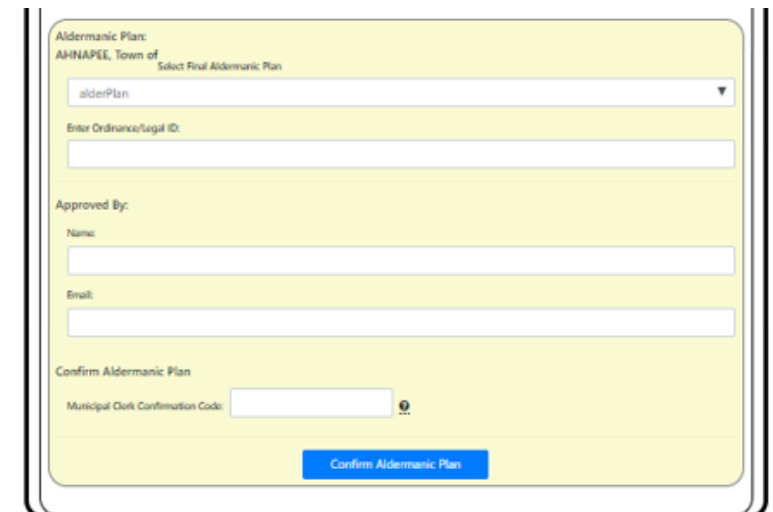
Confirm



Confirm Final Boundaries

County Clerk Confirmation Code:

Confirm Final Plans



Aldermanic Plan:
AHNAPSE, Town of

Select Final Aldermanic Plan

alderPlan

Enter Ordinance/Legal ID:

Approved By:

Name:

Email:

Confirm Aldermanic Plan

Municipal Clerk Confirmation Code:

Confirm Aldermanic Plan

WISE-LR Editor

WISE-LR Editor – Mapping application where all plans are drawn.

Assignment

Labels & Layers

Label on Map

- Population (by block)
- Districts
- Municipalities
- Approved Plan
- Additional Layers

Approved Plan

- Show Confirmed Plan (If Exists)

Additional Layers

- Show Currently Enacted Districts:
- Wards

Legend

- Blocks
- Municipalities
- Wards
- Supervisory
- Legislative
- Congressional

*All layers in the legend represent the currently-enacted boundaries

Overlay Demographics

- Show Demographic Overlay:
- Population
- Normalize by Persons

Low High

0% 50% 100%

Share

WISE for Local Redistricting: Editor | Kewaunee Co. (Plan: Docu_Test) Help PDF WISE-LR Admin

ID Pan Refresh

Opacity: 0% 50% 100%

Assignment

Contiguity & Compactness

- Show Geometry Statistics
- Select Compactness Algorithm: Polsby-Popper

Contiguity & Complexity Fields are shown in Attribute Table below

Undo Last Jump to Unassigned Shuffle Colors

District Assignments

- Merge
- Switch
- 1 >>> 2

District assignment numbers are merged; District (left) is assigned to District (right)

Clear Toggle Update District

Labels & Layers

Share

Color	District	Population	Deviation	% Deviation	Contiguous?	Compactness	Pop 18+	White	Black	Hispanic	Asian	Am Indian	Pac Islldr	Other	Multi-Other	LOCK
Blue	1	940	-89	-8.65%	True	0.58	753	919	1	11	2	5	0	2	0	<input type="checkbox"/>
Yellow	2	948	-81	-7.87%	True	0.78	717	893	1	44	2	8	0	0	0	<input type="checkbox"/>
Pink	3	1,068	39	3.79%	True	0.66	855	1,042	6	15	0	4	1	0	0	<input type="checkbox"/>
Red	4	1,099	70	6.80%	True	0.46	841	1,073	0	21	2	3	0	0	0	<input type="checkbox"/>
Purple	5	1,068	39	3.79%	True	0.25	779	1,035	2	16	2	13	0	0	0	<input type="checkbox"/>
Green	6	1,037	8	0.78%	True	0.32	696	995	5	29	0	7	0	0	1	<input type="checkbox"/>
Dark Red	7	966	-63	-6.12%	True	0.74	689	876	4	56	0	19	0	8	3	<input type="checkbox"/>

Esri Canada, Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS

Understanding the Attribute Table

- **Population (& Demographics)**
 - Aggregate count of block population(s) assigned to a district.
- **Valid Range (Ward Plans)**
 - Statutorily described range that the ward population must fall within.
- **Deviation from Ideal (Supervisory Plans)**
 - The ideal population of a Supervisory District is the total population of the county divided by the number of districts. This field will show the count deviation from that ideal population.
- **% Deviation**
 - Indicates how far from the ideal division of the population by the number of districts or wards.

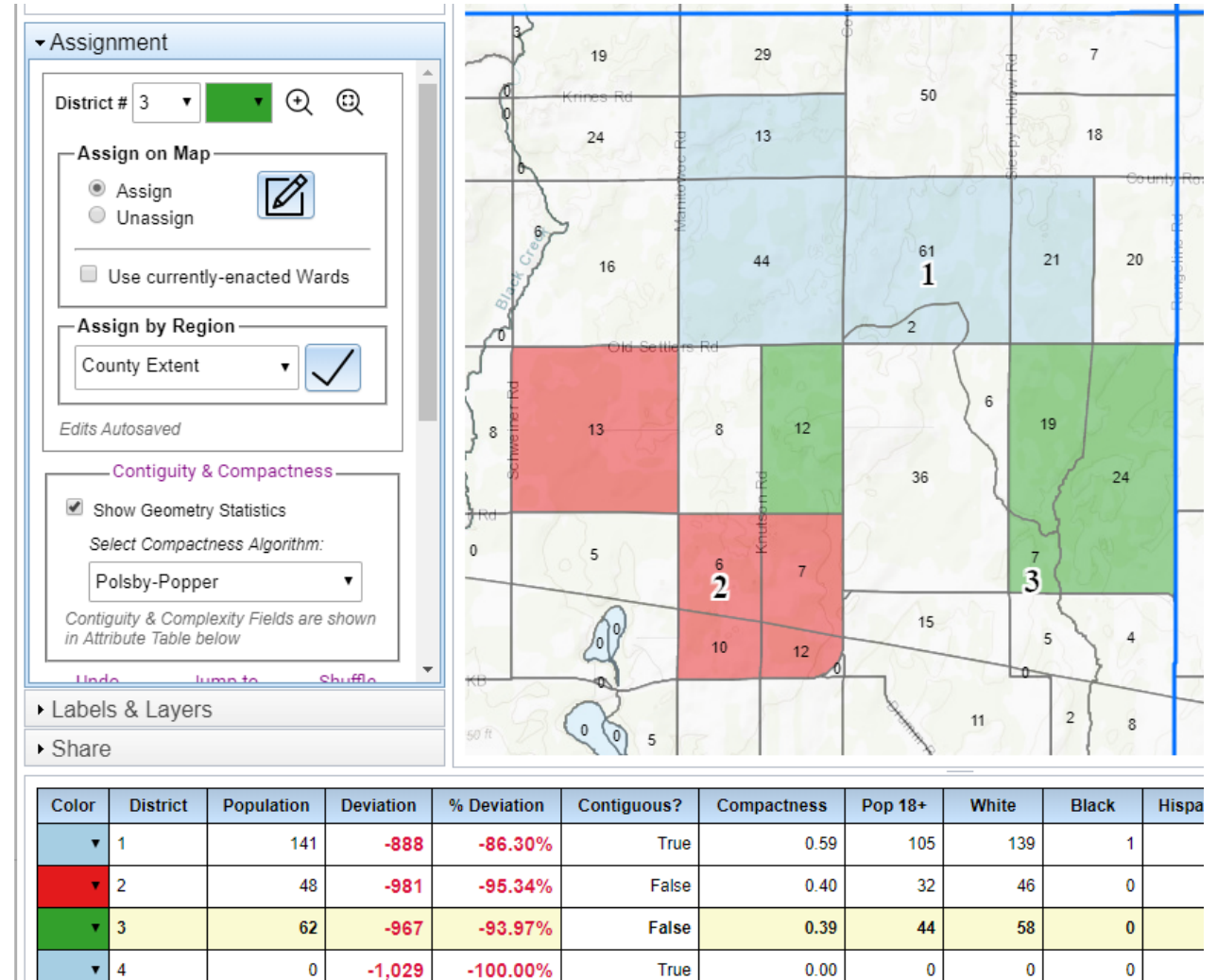
Color	District	Population	Valid Range	% Deviation
▼	1	1,673	300 to 1,000	164.30 %
▼	2	650	300 to 1,000	2.69 %
▼	3	0	300 to 1,000	-100.00 %
▼	4	141	300 to 1,000	-77.73 %
▼	5	623	300 to 1,000	-1.58 %

Color	District	Population	Deviation	% Deviation	Contiguous?	Compactness	Pop 18+	White	Black	Hispanic	Asian	Am Indian	Pac Islldr	Other	Multi-Other	LOCK
▼	1	940	-89	-8.65%	True	0.58	753	919	1	11	2	5	0	2	0	<input type="checkbox"/>
▼	2	948	-81	-7.87%	True	0.78	717	893	1	44	2	8	0	0	0	<input type="checkbox"/>
▼	3	1,068	39	3.79%	True	0.66	855	1,042	6	15	0	4	1	0	0	<input type="checkbox"/>

Geometric Attributes

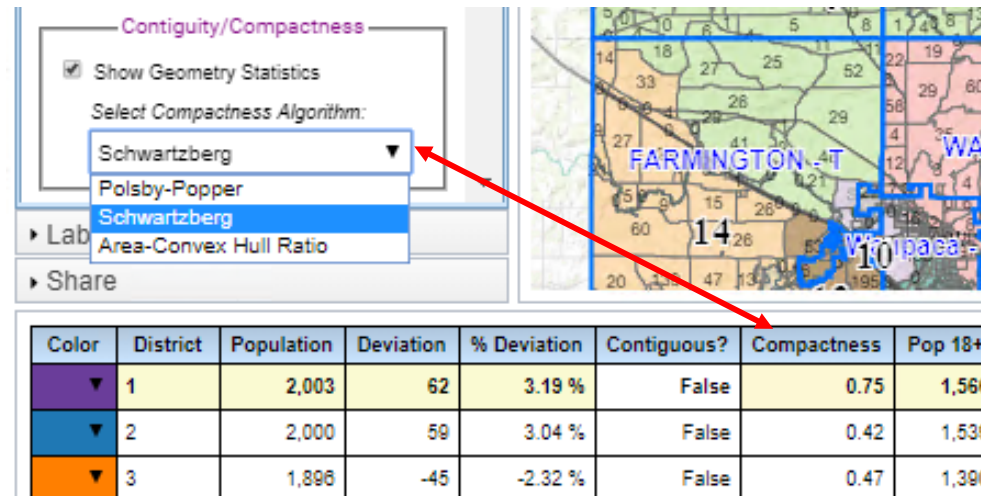
- **Contiguity**

- True or False – All blocks within a district (or ward) share a boundary with (or touch) one another. In other words, the district is a single polygon area when ‘True’ or the district has blocks disconnected from the main district when ‘False’
- While legally allowed, municipal islands (or actual islands) assigned to a district within the main municipality may show up as non-contiguous.



Geometric Attributes

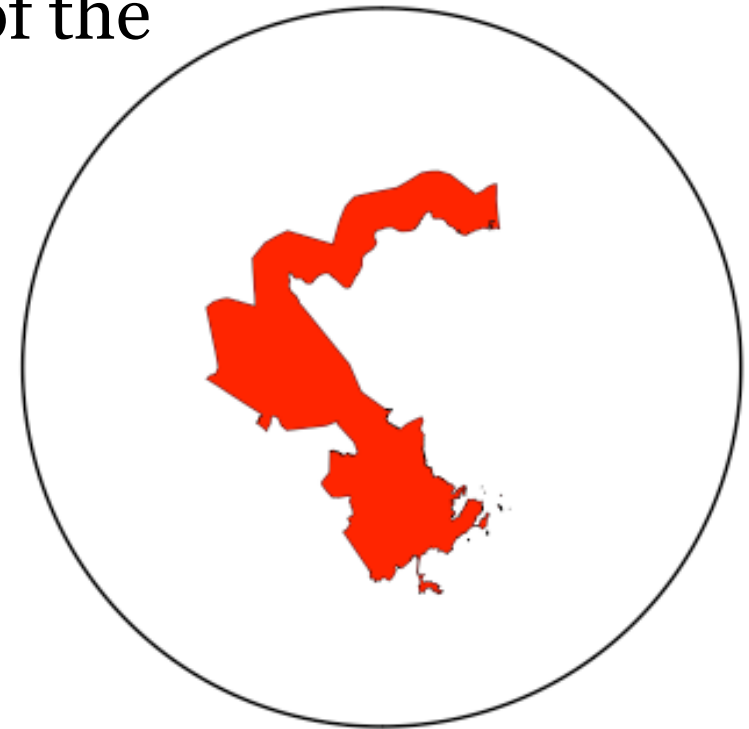
- Compactness Measurements
 - A score between 0 and 1
 - ✦ 1 is most compact
 - Three algorithms to select from:
 - ✦ Polsby-Popper
 - ✦ Schwartzberg
 - ✦ Area-Convex Hull Ratio



Compactness Measurements

- **Polsby-Popper:** measures is the ratio of the area (A) of the district to the area of a circle whose circumference is equal to the perimeter (P) of the district.

$$= 4\pi * \frac{A}{P^2}$$



Circumference Equal to District Perimeter

Graphic Credit: <https://fisherzachary.github.io/public/r-output.html>

Compactness Measurements

- **Schwartzberg:** ratio of the perimeter (P) of the district to the circumference of a circle whose area is equal to the area of the district (A).

$$= \mathbf{1} / \frac{P}{2\pi\sqrt{(A/\pi)}}$$



Circle with Area Equivalent to the District

Graphic Credit: <https://fisherzachary.github.io/public/r-output.html>

Compactness Measurements

- **Area/Convex Hull:** compares the area of the district (A) to the area of the smallest bounding convex polygon (C). The score penalizes for boundary contortions, but grants flexibility a any non-concave polygon is seen as ideal.

$$= \frac{A}{C}$$



Convex Hull

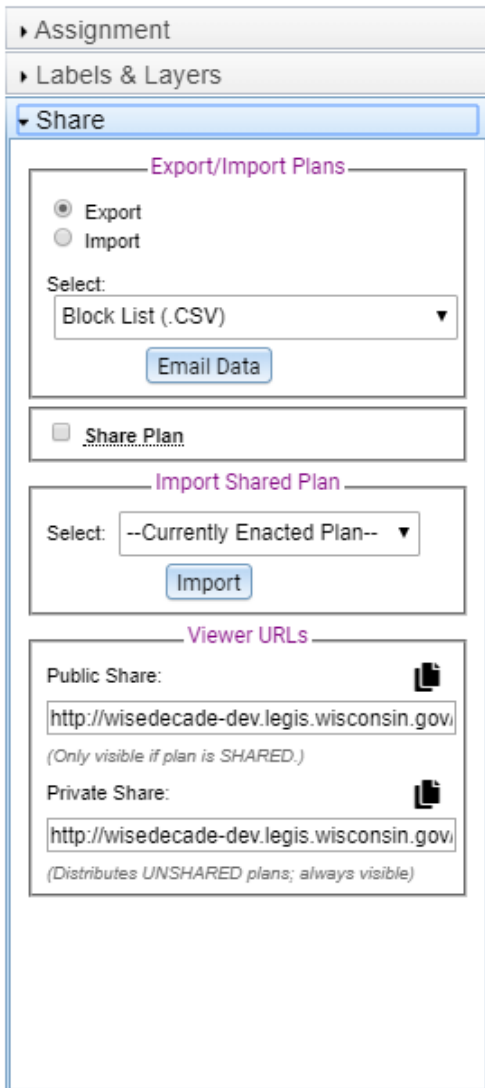
Sharing Plans

WISE-LR Editor

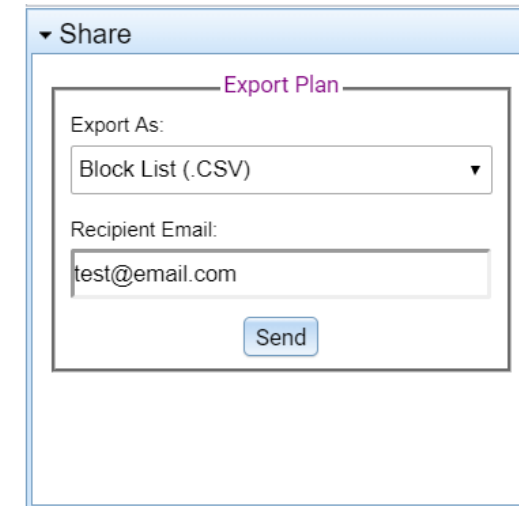
- Public Share URL
 - ✦ Only visible within WISE-LR to other county users if plan is SHARED
- Private Share URL
 - ✦ Distributes UNSHARED plans; always visible.
 - ✦ Anyone with access to this url will be able to see your plan. Be careful with how this is distributed.

WISE-LR Viewer – What people see if they open a shared url.

- Share pane: can send an email to someone with the plan's data



The screenshot shows the 'Share' pane in the WISE-LR Editor. It is divided into three sections: 'Export/Import Plans', 'Share Plan', and 'Viewer URLs'.
 - **Export/Import Plans:** Includes radio buttons for 'Export' (selected) and 'Import'. A 'Select:' dropdown menu is set to 'Block List (.CSV)', with an 'Email Data' button below it.
 - **Share Plan:** A checkbox labeled 'Share Plan' is currently unchecked.
 - **Import Shared Plan:** A 'Select:' dropdown menu is set to '--Currently Enacted Plan--', with an 'Import' button below it.
 - **Viewer URLs:** Shows two URL options: 'Public Share' and 'Private Share', both with the URL 'http://wisedecade-dev.legis.wisconsin.gov/'. The Public Share URL is noted as '(Only visible if plan is SHARED.)' and the Private Share URL is noted as '(Distributes UNSHARED plans; always visible)'.



The screenshot shows the 'Share' pane in the WISE-LR Viewer. It features an 'Export Plan' section with an 'Export As:' dropdown menu set to 'Block List (.CSV)'. Below this is a 'Recipient Email:' text input field containing 'test@email.com', and a 'Send' button at the bottom.

Pilot Program

- Inter-government dress rehearsal of Local Redistricting
 - Use the opportunity to plan your redistricting for 2021
- Reduced time table to allow for busy clerk schedules
 - **Three 14-day stages** instead of three 60-day stages
- Stage 1: June 1st, 2020
- Stage 2: June 15th, 2020
- Stage 3: June 29th, 2020

Questions?

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