



iRedistrict[®] Online

User Guide

Version 2015

iRedistrict Online

Redistricting Plan Development | Project Management | Social Collaboration | Real-Time Transparency



CREATE PLANS

- 1 Powerful Optimization Algorithm
- 2 Balance Variables within Each District
- 3 Achieve Shape Compactness
- 4 Minimize Travel Time and Distances
- 5 Preserve Existing Boundaries



REVIEW & EDIT PLANS

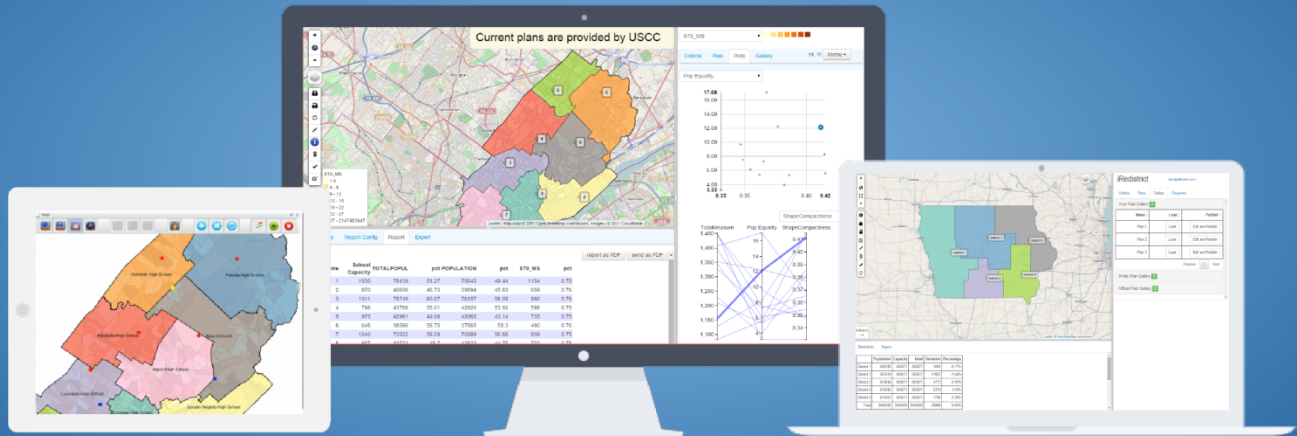
- 6 Lock Districts to Integrate into a New Plan
- 7 Classify Individual Units to a Specific District
- 8 Preserve Communities of Interest
- 9 Compare Plans Using Geo-Visual Analytics
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SHARE PLANS

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Share an Automatically Generated Report With Each Plan
Improve Collaboration, Increase Efficiency, and Create Transparency
- 11 Automatically Produce and Save Your Plans Online

iRedistrict Online



iRedistrict Online Quick Start Guide

iRedistrict Online is a cloud-based redistricting service that includes powerful optimization algorithms, intuitive user controls, an easy editing interface, and customizable reporting. As an innovative, cost-effective, and time-saving solution, iRedistrict Online can dramatically save the workload and enhance the quality of your redistricting project outcome. iRedistrict Online excels in its capability to leverage user inputs (i.e. communities of interests, existing boundaries, etc.) and powerful computer algorithms to generate high-quality redistricting plans that meet mandatory requirements and user-specified preferences. Users get access to dynamic, authoritative content to create, collaborate, catalog, and share maps, data, and reports. iRedistrict Online gives users everything needed to create interactive web maps and redistricting results to sharing between each other, the entire organization, or with the public.

This guide is a tutorial designed to get you started with using iRedistrict Online. It provides short instructions for the common tasks performed by three types of iRedistrict Online user roles: administrator, standard user, and limited user.

If you are interested in our service and want to create an organization account for your community, please contact us. We will create an organization account for you, so that you will be able to publish services and manage your organization accounts. If you have any questions or comments, please contact us at info@zillioninfo.com.

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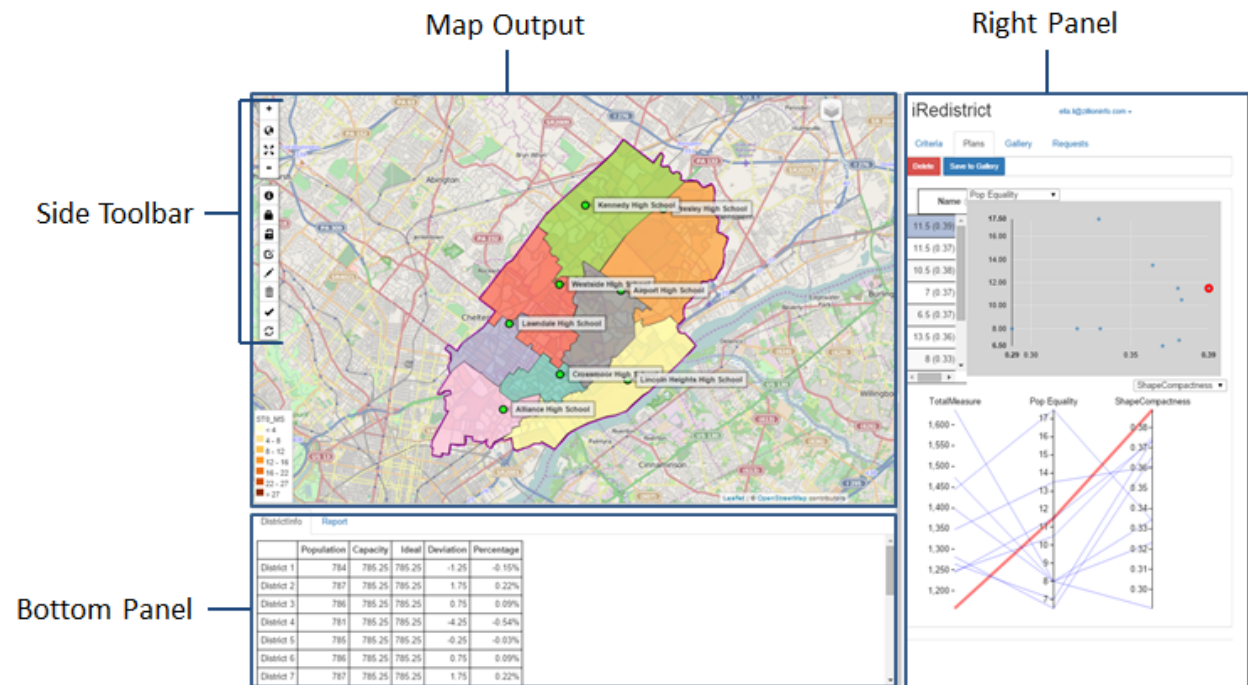
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Users and Roles

	Limited User	Standard User	Administrator
Join and Sign In with the Organization	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Account			
Add Users to Your Organization	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Launch Redistricting Data	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Map Navigation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Draw Communities of Interest (COI)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Create Plans	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Visually Compare and Select Your Plans	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Review and Your Report	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Configure Report	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Edit Your Plans Manually	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lock and Unlock Districts	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Save Your Plan Online	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Load Plans	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Edit Plan Information	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Publish Plans to the Public Gallery	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Publish Plans to the Official Gallery	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Requests	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

iRedistrict Online Overview

The interface of iRedistrict Online is composed of four main sections: the Map Output, the Side Toolbar, the Right Panel and the Bottom Panel. The Map Output displays all of the layers that are turned on and the generated redistricting plans. The Side Toolbar includes functions for map navigation, editing units, locking units, and creating, saving, and loading communities of interest (COI). The Right Panel includes tabs where you can define your criteria and create redistricting plans, view and compare plans, save and share plans to different galleries, and view processing and previous requests. The Bottom Panel includes descriptive information about each district within a plan and an option where you can view and configure a report.



Join the Organization Account

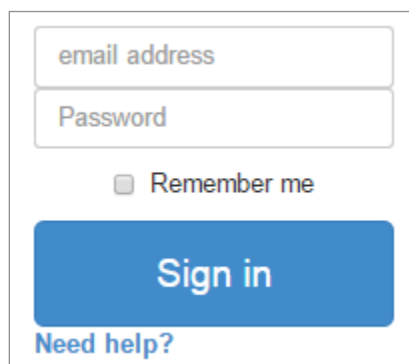
You can sign up and join the organization account from the front page.

1. Click the **Sign-up** button.
2. Fill the following fields: **First name, last name, email address, password, confirm the password, organization, and invitation code**. The password must be between 8 to 14 characters.
3. Read the **Terms of Service** and **Privacy Policy**, if you agree to the terms and decide to use the service, enable the checkbox.
4. Click the **Register** button.
5. After you receive an email confirmation, click **the link** provided in the email, and complete the registration.

Sign in with the Organization Account

Once you have signed up an account, you can log in from the **front page**.

1. Click the **Log-in** button.
2. Fill the following fields: **email address, and password**.
3. If you want the computer to remember your account, check the **enable** checkbox “remember me”.
4. Click the **Sign-In** button to see your organization home page.



The image shows a login form with the following elements:

- An input field labeled "email address".
- An input field labeled "Password".
- A checkbox labeled "Remember me".
- A blue button labeled "Sign in".
- A link labeled "Need help?" below the button.

If you forget your password, find out the password by email:

1. Click **Need help**.
2. Enter the same **email address** that you registered with.
3. Click the **Send** button.
4. Your password will be sent to you by email.

Add Users to Your Organization

The administrator can add users to the organization by sending the invitation code.

To add users:

1. Create an invitation code for your organization.
2. Send the invitation code to people you want to invite.

When users receive the invitation code, they can [join the organization account](#).

Launch Redistricting Data

From your organization **Services** page, click the appropriate data (sets with sites or without sites) to open the interface with the map view. You will see your organization's default map and ready to use data.







iRedistrict Online

welcome back **Guest**

The screenshot displays three data set cards. Each card features a map thumbnail at the top, a title, a blue 'Data' button, and a list of data items below. The first card, 'redcap', shows a map of the United States and lists 'philadelphia3'. The second card, 'iRedistrict without seed', shows a map of Philadelphia and lists 'Iowa', 'philadelphia1', and 'Iowa'. The third card, 'iRedistrict with seed', shows a map of Philadelphia and lists 'philadelphia1' and 'Iowa'.

Map Navigation

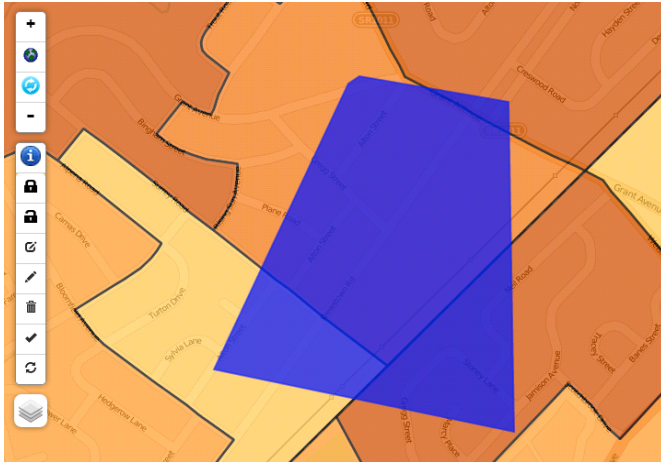
You can control the map with a variety of functions available at the **Side Toolbar** on the left of the interface. A mouse-over each button will show a notation about the function of the button.

Icon	Label	Description
	Zoom In	Zoom in on areas of the map – you can also use the mouse wheel to zoom in by scrolling up.
	Zoom Out	Zoom out to areas of the map – you can also use the mouse wheel to zoom out by scrolling down.
	Full View	View the full basemap.
	Full Extent	View the targeted area and get a full view of your dataset.
	Identify	To see a detailed description of the features (points, lines, areas) on the map, click on a feature you are interested in to see the attribute data that are associated with it.
	Layers	To turn layers on/off, enable or disable each layer by using the corresponding checkboxes. This icon is not located in the upper right corner of the map panel.





Draw Communities of Interest (COI)


Community of Interest (COI) is an area you can draw on the map to make sure the units within the COI you create will be in the same district as a result.




To **create** a COI:

1. Click the **Draw COI** button  located within the toolbar.
2. Click on the map, and draw the COI that identifies the units you would like to preserve within the same district.
3. When you finish drawing the COI, **double click** on your last point to stop drawing.
4. If you want to save the COI, click the **Save COI** button  within the toolbar.
5. Enter a **name** for the COI.
6. Click **save** in the pop-up window.

To **delete** a COI:

1. Click the **Delete COI** button  located within the toolbar.
2. Click the COI you want to delete.

To **load** a previously created COI:

1. Click the **Load COI** button  located within the toolbar.
2. From the COI list, select the COI's you want to load.
3. Click **load** button.

Create Plans

Under the **Right Panel** -> **Criteria**, either the Standard User or the Administrator can set how parameters are weighted for generating plans. The Limited User can revise the plans of other users.

To create plans:

1. Choose the parameters you wish to configure by selecting the corresponding **Enable** checkbox.

Criteria	Description	Assigning factors to Each Criteria
Population	The balance of the population across units	<ol style="list-style-type: none"> Select the attribute that is associated with the population data to be considered in the optimization Set the weight* Set the threshold**
Shape	The compactness of the shape of each unit	Set the weight*
Balance of multiple variables	The balance of each selected variable across units	<ol style="list-style-type: none"> Set the threshold** Select the attribute(s) that you would like to balance within the optimization Set the weight *
Similarity	The similarity of attribute values within target regions	Set the weight *
Distance***	Minimizes the total distance between each unit polygon and the site it is assigned to (weighted by the population of each polygon)	<ol style="list-style-type: none"> Set the weight* A point-to-point distance network is created by default. ZillionInfo can host a road network distance file if you are able to provide it.
Boundary	Preserve existing boundaries as much as possible	<ol style="list-style-type: none"> Set the weight* The boundary data must be pre-published.

- * The weight is the importance of a factor in comparison to the other factors enabled within the criteria. It should be a positive integer if the criterion is to be considered in the optimization algorithm. The weight can be set to zero if the factors, such as population, is not to be considered.
- ** The **threshold** is the tolerance limit compared to target value of the population. For example, if the population threshold is 5% and the target value is 10,000, the population could range between 9,500 and 10,500 as a result.
- *** The distance criterion is optimal for datasets with sites, and it is not applicable for datasets without sites.

Criteria	Plans	Gallery	Requests
Population (weight: 1)			
Shape			
Balance of multiple variables			
Similarity			
Distance			
Boundary			

2. **Algorithm:** Choose the algorithm method.

'KL_TABU_8' is an ideal algorithm for small data sets (such as 500 units or less). If the total units within the dataset is larger than 1000, the default algorithm will be 'KL GREEDY', which runs large datasets (e.g., > 3000 units) faster. If the waiting time for generating plans is not an issue 'KL' can be used for large data sets which tends to provide better results than KL GREEDY.

3. **#Districts:**

- Dataset with sites:
 - By default, the number of districts are equal to the number of facilities.
- Dataset without sites:
 - Specify the number of districts you plan to generate.

4. **#Plans:** Specify the number of plans you would like to generate.
5. To save the **criteria and algorithm configurations**, click the **Save Setting** button.
6. To generate plans, click **Run** to start the optimization process.

Algorithm:	KL
#Districts:	8
#Plans:	10
<input type="button" value="RUN"/>	<input type="button" value="Save Setting"/>

7. Once the plans are generated, a window will pop up. Within the pop-up window, click the **Yes** button to load plans on the map.

X

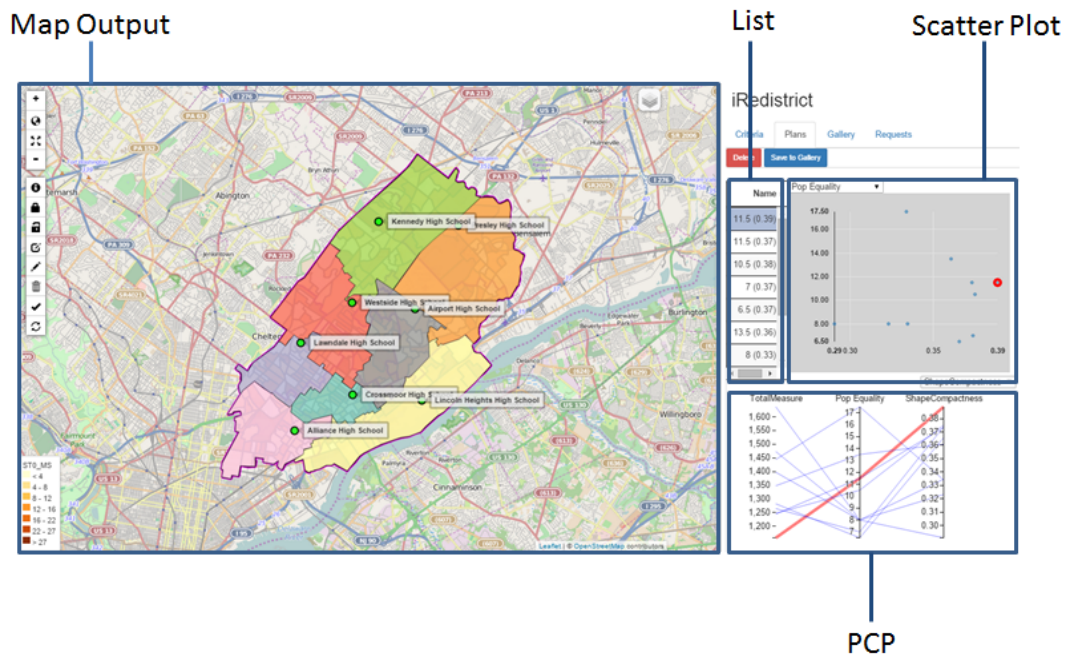
Request has been completed

Do you want to display the result

8. Review the results on the map.

Visually Compare and Select Plans

To visualize and compare the automatically generated plans, use the map output, list, scatter plot, and parallel coordinate plot (PCP). Within the **Plans** tab in the **Right Panel**, you can click on a point within the scatterplot, a line on the parallel coordinate plot, or a number on the list to update the map with the selected plan.

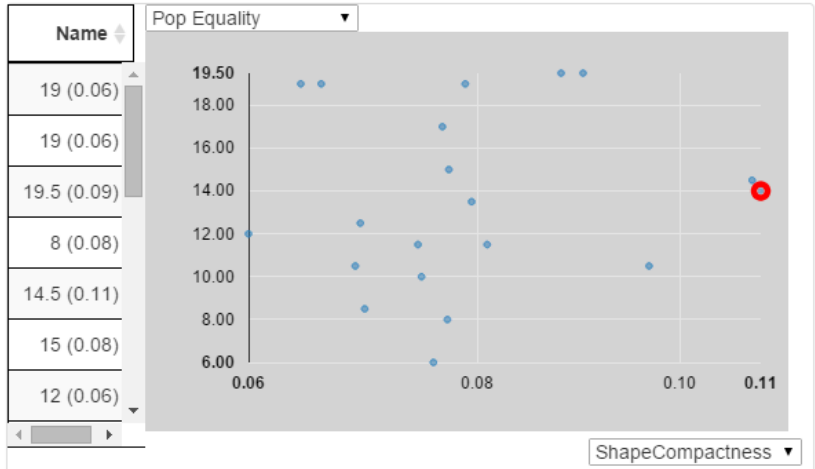


There are two plots: the scatterplot and the parallel coordinate plot to display all the measurements in the plot.

Scatterplot

To compare plans using the scatterplot:

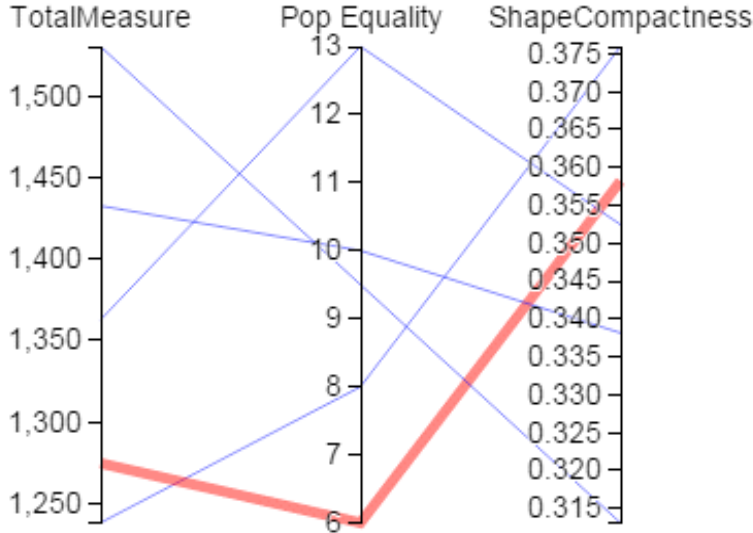
1. Click the **Right Panel > Plans**.
2. The two axes of the scatter plot can be any two of the chosen criteria (e.g. population and compactness). Choose the measurement for x-axis and y-axis of the first plot (scatterplot).
3. Each point on the scatterplot represents a plan. Click on a **point** so the corresponding plan will be shown on the map and highlighted in the parallel coordinate plot.



Parallel Coordinate Plot

When using the parallel coordinate plot (PCP) for comparing multivariate data within a plan, each axis represents a variable used in the optimization criteria whereas each line represents the scores of related criteria for a specific plan. The selected plan will display as a red line and the other generated plans are displayed as blue lines.

To select a plan within the PCP, click and drag the mouse over its representing line. Once the plan is selected, the representing line will highlight in red. The plan's information will update in the map and report, and its related point in the scatter plot will highlight in red



Review Your Report

- To review the district information of the plan, click **DistrictInfo** within the **Bottom Panel**.

DistrictInfo		Report			
	Population	Capacity	Ideal	Deviation	Percentage
District 1	784	785.25	785.25	-1.25	-0.15%
District 2	787	785.25	785.25	1.75	0.22%
District 3	786	785.25	785.25	0.75	0.09%
District 4	781	785.25	785.25	-4.25	-0.54%
District 5	785	785.25	785.25	-0.25	-0.03%
District 6	786	785.25	785.25	0.75	0.09%
District 7	787	785.25	785.25	1.75	0.22%
District 8	786	785.25	785.25	0.75	0.09%
Total	6282	6282	6282	11.5	0.18%

Percentage = Deviation / Ideal population

Compactness	Polsby-Popper
District 1	0.401
District 2	0.274
District 3	0.365
District 4	0.343
District 5	0.510
District 6	0.451
District 7	0.357
District 8	0.409

- To review the report for the plan, click **Report** at the **Bottom Panel**.

DistrictInfo		Report						Configure
District	Capacity	ST0_MS	pct	ST3_MS	pct	ST5_MS	pct	
Airport High School	957	786	0.82	1045.13	1.09	1071.49	1.12	
Alliance High School	1240	787	0.63	1037.76	0.84	1075.4	0.87	
Crossmoor High School	1530	784	0.51	1011.04	0.66	1077.26	0.7	
Kennedy High School	646	786	1.22	1014.83	1.57	1064.11	1.65	
Lawndale High School	1311	786	0.6	1025.9	0.78	1101.72	0.84	
Lincoln Heights High School	870	787	0.9	1031.54	1.19	1113.81	1.28	

Configure Report

The Administrator and the Standard User are able to configure which data to display in the report by clicking on the **Configure** button in the top right within the **Report** tab. After the Administrator configures the report for each plan, the selected variables will be displayed to the Limited User if the plan is shared. When the Standard User configures the report, their selection does not influence what the Limited User is able to view in a shared plan.

To configure the variables which you want to include in the report:

1. Go to the **Bottom Panel** and choose the variables you want to include in the report by **enabling** the corresponding checkboxes.
2. Click **Save Config** to save and update the variables displayed in the report.

X

Configure the report


Check	Variable	Alias	Percentage of
<input type="checkbox"/>	TOTALPOPUL	TOTALPOPUL	Capacity
<input type="checkbox"/>	POPULATION	POPULATION	Capacity
<input checked="" type="checkbox"/>	ST0_MS	ST0_MS	Capacity
<input type="checkbox"/>	ST1_MS	ST1_MS	Capacity
<input type="checkbox"/>	ST2_MS	ST2_MS	Capacity
<input checked="" type="checkbox"/>	ST3_MS	ST3_MS	Capacity
<input type="checkbox"/>	ST4_MS	ST4_MS	Capacity
<input checked="" type="checkbox"/>	ST5_MS	ST5_MS	Capacity
<input type="checkbox"/>	ST6_MS	ST6_MS	Capacity
<input type="checkbox"/>	ST7_MS	ST7_MS	Capacity
<input type="checkbox"/>	ST8_MS	ST8_MS	Capacity
<input type="checkbox"/>	ST9_MS	ST9_MS	Capacity
<input type="checkbox"/>	ST10_MS	ST10_MS	Capacity
<input type="checkbox"/>	FR_MS	FR_MS	Capacity
<input type="checkbox"/>	LEP_MS	LEP_MS	Capacity
<input type="checkbox"/>	MIN_MS	MIN_MS	Capacity
<input type="checkbox"/>	SGF_MS	SGF_MS	Capacity

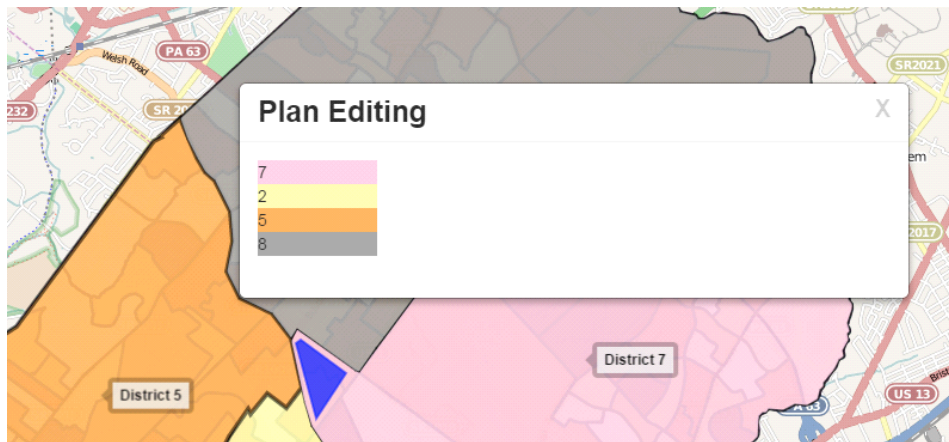
Save Config Close

Edit Your Plan Manually

You can manually edit the boundaries of the plans if you would like to assign select units to a certain district.

To edit the units to assign them to different districts:


- Click the edit units' button  located on the side bar.
- Draw an area on the map that only covers the units that you want to edit.
- When you finish drawing the area, click back on the **starting point**.
- Choose the appropriate district for the selected units in the pop-up window.
- The **map**, **plots**, **district information**, and **report** will be update in unison with the new information.

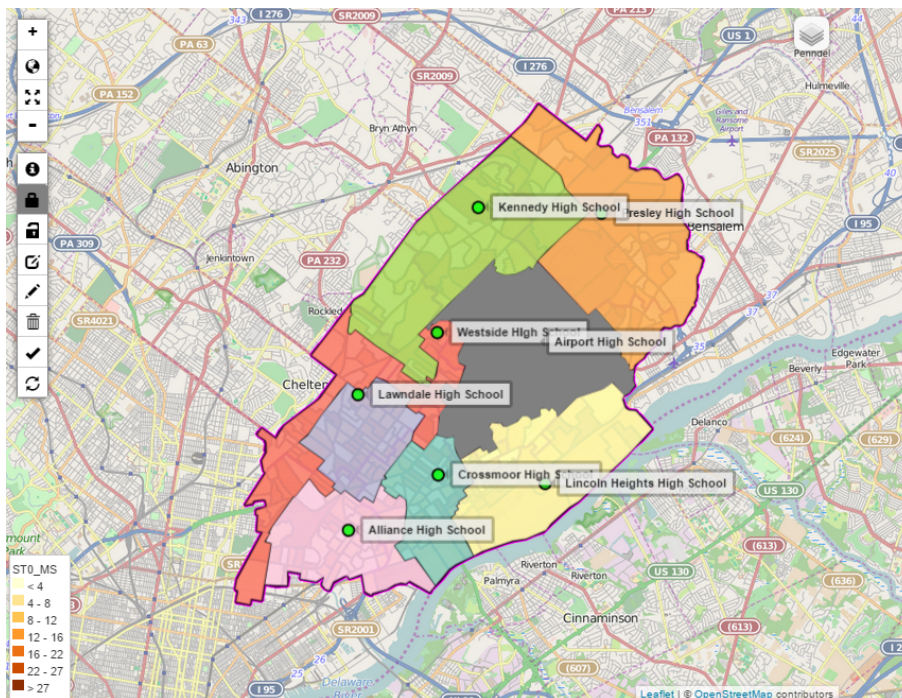


Lock and Unlock Districts


If there are specific districts within a plan that satisfy your requirements and goals, while there are other districts that you would like to change, you can lock the districts you like and create different plans that embed the lock districts. The new plans will also offer different solutions for the districts that you wanted to change in the previous plan.

To lock certain districts:

1. Select the Lock button  from the Side Toolbar.
2. Select the districts you would like to preserve and integrate into a new plan. The locked districts will change to a light grey color.
3. Set your criteria and run a request to [create new plans](#) that preserve the locked districts.



To unlock districts:

1. Select the Unlock button  from the Side Toolbar.
2. Select the locked districts you would like to unlock. The locked districts will change from a light grey color to their original color.

iRedistrict Online Galleries

There are three main galleries within iRedistrict Online in which you can either save, publish, and view your own plans or other user's plans depending on your assigned role. The three main galleries are: Your Plan Gallery, the Public Plan Gallery, or the Official Plan Gallery.

Your Plan Gallery

Your Plan Gallery is a place that you can store your **own plans** for future use. Also, you can choose to **publish** selected plans to [Public Plan Gallery](#) or the [Official Plan Gallery](#) through here.

Name	Load	Publish
Plan 1	Load	Edit and Publish
Plan 2	Load	Edit and Publish
Plan 3	Load	Edit and Publish
Plan 4	Load	Edit and Publish

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Public Plan Gallery


Official Plan Gallery

Public Plan Gallery

Public Plan Gallery displays all the plans that are published in it with the **same service** and **dataset**. This is a **shared** plan gallery that everyone within the organization has access to view. They have access not only to upload their own plans to the Public Plan Gallery, but also load any of the plans published by other users in all organizations. Users are able to revoke their own plans published in this gallery, but they cannot edit the plans of other users.


Criteria Plans **Gallery** Requests

Your Plan Gallery 

Public Plan Gallery 

Name ↕	Load ↕	Publish ↕
Plan 1 by ZillionInfo	<input type="button" value="Load"/>	<input type="button" value="Revoke"/>
Plan 2 by ZillionInfo	<input type="button" value="Load"/>	<input type="button" value="Revoke"/>
Plan 3 by ZillionInfo	<input type="button" value="Load"/>	<input type="button" value="Revoke"/>
Plan 4 by ZillionInfo	<input type="button" value="Load"/>	<input type="button" value="Revoke"/>


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Official Plan Gallery 


Official Plan Gallery

The **Official Plan Gallery** is shared within the organization, and you will have access to view the plans in this gallery within your organization. You can publish your plans in this gallery only if you are an **administrator**. However, if you are a **standard user** or **limited user**, you will not have access to publish in this gallery. Users are able to **revoke** their own plans published in this gallery.

Criteria Plans **Gallery** Requests

Your Plan Gallery 

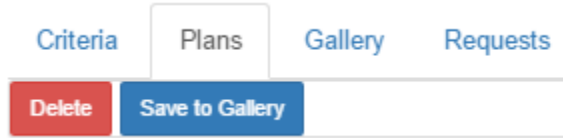
Public Plan Gallery 

Official Plan Gallery 

Save Your Plan Online

To save a select plan online:

1. Click the **Save to Gallery** button within the Plans tab in the **Right Panel** to save the plan to [Your Plan Gallery](#).



2. Enter the plan **name**, **author**, and **note** in the pop-up window.
3. Click **Save** button at the bottom right of the pop-up window.

Save the plan to your gallery X

Plan Name:

Author:

Note:

Load Plans

There are two ways to load a previously generated plan. One option allows you to load a set of plans that was generated from your previous requests. The other option is load a single plan that you saved into Your Plan Gallery, or one that was saved into the Public Plan Gallery or the Official Plan Gallery.

To load a set of plans from a previous request:

1. Go to the **Requests** tab in the **Right Panel**. The plans are ordered by the time they were generated.
2. Identify the plan you want to load, and click the **load** button that correlates with the plan.


The screenshot shows a software interface with four tabs: 'Criteria', 'Plans', 'Gallery', and 'Requests'. The 'Requests' tab is active. At the top of the 'Requests' panel, there is a calendar icon and the text 'Within last week'. Below this, a list of requests is displayed. Each request is represented by a green bar containing a date and time, followed by 'Load' and 'Delete' buttons. The first request is '5/25/2015 16:53'. Below it, a vertical line branches out to a list of ten individual plans, each in a rounded rectangle: '12 (0.42)', '6.5 (0.38)', '11.5 (0.37)', '10 (0.36)', '10 (0.35)', '13 (0.35)', '8 (0.34)', '6.5 (0.32)', '11.5 (0.3)', and '8 (0.3)'. Below these are three more requests: '5/25/2015 15:29', '5/20/2015 12:54', and '5/19/2015 12:26'. At the bottom of the 'Requests' panel, there is a calendar icon and the text 'A week earlier'.

For more information, see the [Requests](#) section within this document.

To load a plan that was saved to either Your Plan Gallery, the Public Plan Gallery, or the Official Plan Gallery:


1. Go to the **Gallery** tab in the **Right Panel**
2. Select the gallery that the plan you want to view is saved to: Your Plan Gallery, the Public Plan Gallery, or the Official Plan Gallery.
3. Click on the **Load** button that corresponds to the plan name and the plan information will be loaded in the **Map Output, Plots, DistrictInfo** and **Report**.


Criteria Plans **Gallery** Requests

Your Plan Gallery 

Name ↕	Load ↕	Publish ↕
Plan 1	<input type="button" value="Load"/>	<input type="button" value="Edit and Publish"/>
Plan 2	<input type="button" value="Load"/>	<input type="button" value="Edit and Publish"/>
Plan 3	<input type="button" value="Load"/>	<input type="button" value="Edit and Publish"/>
Plan 4	<input type="button" value="Load"/>	<input type="button" value="Edit and Publish"/>

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Public Plan Gallery 

Official Plan Gallery 

Edit Plan Information

To edit the information of a plan, click on the **Edit and Publish** button to the right of the corresponding plan. You will get an Edit Plan window where you can **edit** the plan information such as the plan's name, author, and description. With the buttons in the lower left, you can either **save** the plan, **delete** the plan, or **publish** the plan to Public Plan Gallery or Official Plan Gallery.

Edit Plan

Plan Name: Author:

a little description

Note:

Publish Plans

Plans can be shared to the Public Plan Gallery or the Official Plan Gallery.

Public Plan Gallery

To share your plans with other users, you can publish plans to the Public Plan Gallery.

To publish plans to the **Public Plan Gallery**:

1. Within the **Right Panel**, click the **Gallery** tab, then select the **Your Plan Gallery**.
2. Choose the plan you want to publish, and click **Edit and Publish**.
3. Edit the **Plan name**, **author**, and **note** in the pop-up window.
4. Click the **Publish to Public** button.
5. Close the pop-up window.
6. To verify if your plan has been successfully published to public plan gallery, click the **Gallery** tab within the **Right Panel** and then click the **Public Plan Gallery** tab.
7. If you want to revoke your plan from publish gallery, click **Revoke** button of the plan.

Criteria Plans **Gallery** Requests

Your Plan Gallery

Public Plan Gallery

Name	Load	Publish
Plan 1 by ZillionInfo	Load	Revoke
Plan 2 by ZillionInfo	Load	Revoke
Plan 3 by ZillionInfo	Load	Revoke
Plan 4 by ZillionInfo	Load	Revoke

Previous 1 Next

Official Plan Gallery

Official Plan Gallery

You can publish your plans in this gallery only if you are an **administrator**.

To publish plans to the official gallery, announce official plans, and share the plans with all other users:

1. Go to the **Right Panel**, click the **Gallery** tab, and then click on **Your Plan Galley**.
2. Choose the plan you want to publish to the **Official Plan Gallery**, and then click the **Edit and Publish** button associated with the plan.
3. In the pop-up window, edit the **plan name**, **author**, and **note**, ensure the fields are what you want to show in the official gallery, click **Public to Official** button.
4. To double check the plan has been published successfully to official gallery, click **the Official Plan Gallery** tab within the **Gallery** tab of the Right Panel.
5. To revoke your plan from official gallery, click **Revoke** button of the plan.

Requests

Requests store the history of the redistricting calculation results. From here, you can load the results you had before by clicking on Load without doing the calculation again. Also, you can delete the request by simply click on Delete.

While a new request is processing, you can see the progress bar in this Request tab. Because the calculation processes and stores the results on the cloud, you are able to close out of the application while it is processing a request and load it later when you would like to view the results.

The screenshot displays the 'Requests' tab in a software application. At the top, there are navigation tabs: 'Criteria', 'Plans', 'Gallery', and 'Requests'. Below the tabs, there is a filter dropdown set to 'Within last week'. The main content area shows a list of requests, each with a green status bar, a timestamp, and 'Load' and 'Delete' buttons. The first request, dated 5/12/2015 14:43, is expanded to show a tree view of redistricting results. The results are as follows:

- 11.5 (0.36)
- 6 (0.3)
- 3 (0.29)
- 6 (0.28)
- 7.5 (0.28)

Below this, there are five more requests from 5/8/2015 10:06 to 5/6/2015 16:21, each with 'Load' and 'Delete' buttons. At the bottom, there is a filter dropdown set to 'A week earlier', showing four requests from 5/5/2015 10:59 to 4/16/2015 16:47, each with 'Load' and 'Delete' buttons.