There are multiple Redistricting software on the web that the public can use for free, such as Dave's Redistricting, Representable, Districtr, and District Builder among others.

Dave's Redistricting User Guide

In order to use Dave's Redistricting web app, the users must sign-up for a free account. This free account allows the user to create, analyze, import and share information about their maps. In the upper right corner you can select the sign-up option which automatically is displayed on the left field where you have to type your email and password. Completing these fields will create your account. Your new account does not need to be verified so you have immediate access to your account.
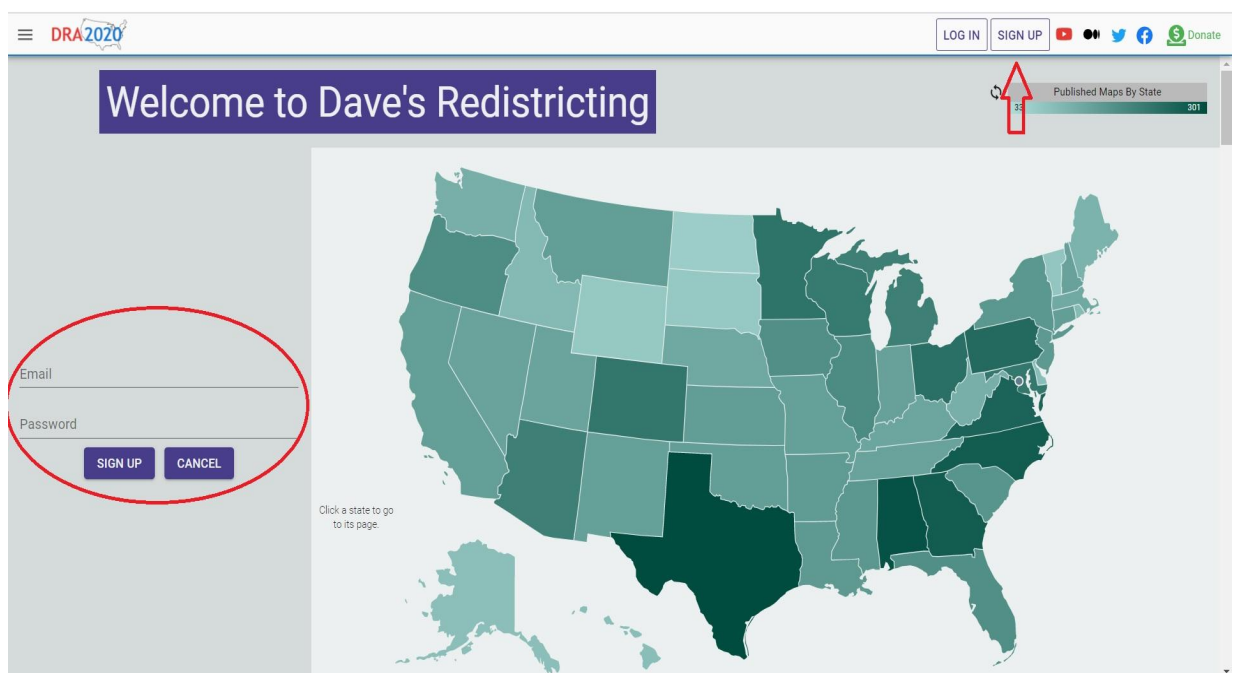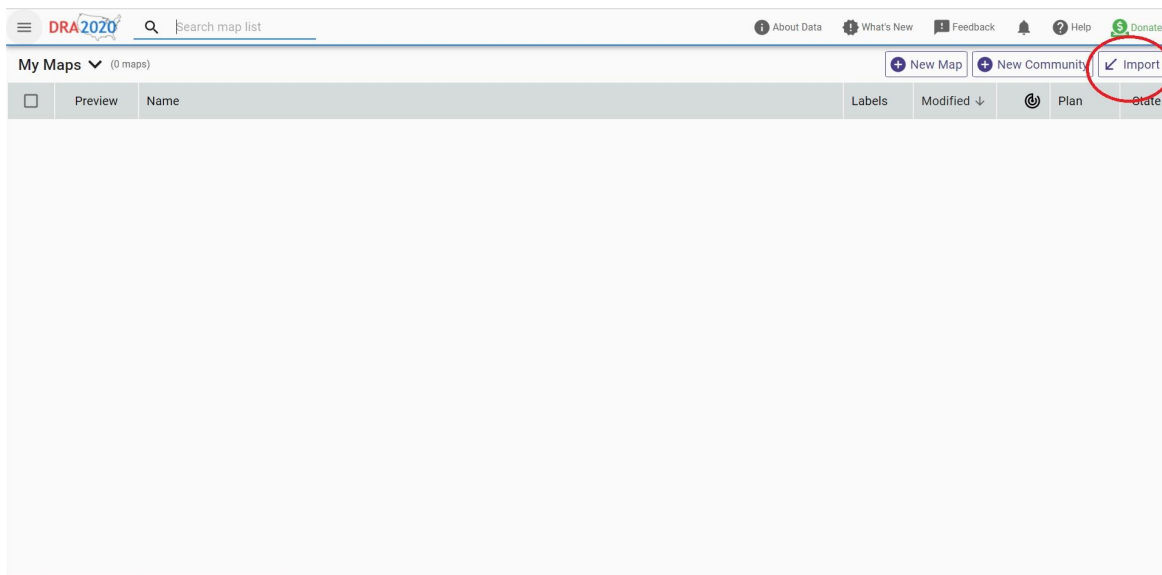
After signing up. You will have to select the option maps
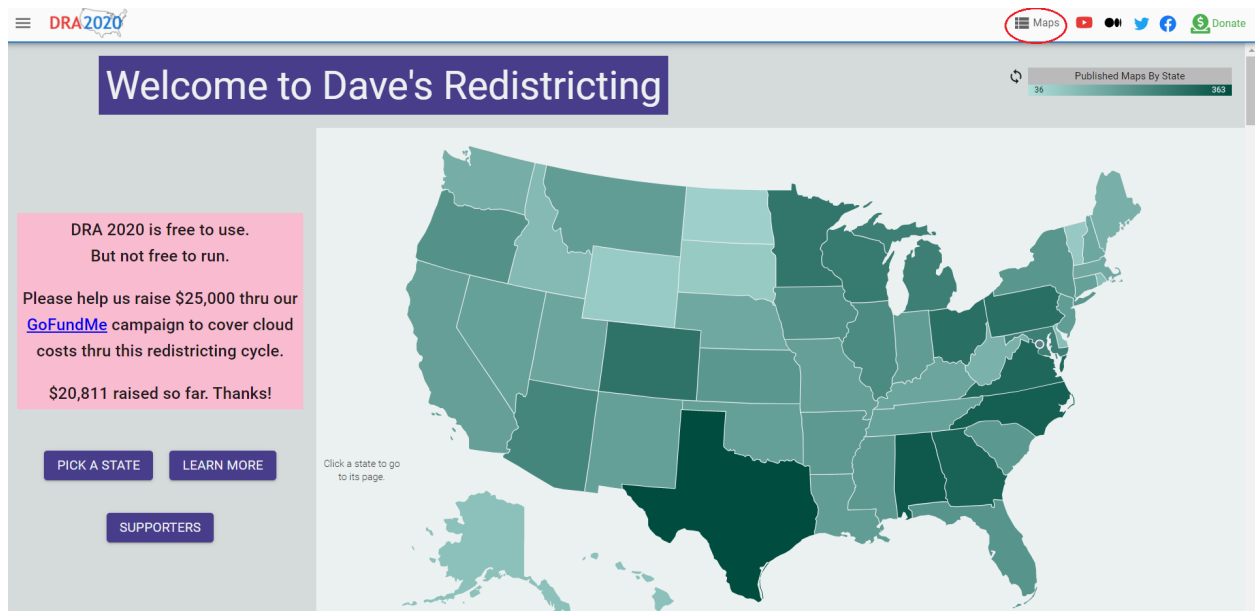
Import:

The next window will be displayed on your screen. This window will allow the user to import data from the SWDB and outside sources.

Once you click the import option, this will display the different formats that are available to import.

Now you can click the option choose file and import the (.csv) files.

You can find the (.csv) files of the Assembly, Senate, Congressional, and Board of Equalization Districts on the SWDB website.

After importing the (.csv) file of your choice, the next window will appear on your screen.

Then, you will have to select the name of your map as well as Edit to work on your project.

This window will display the imported information and will allow you to modify your map.
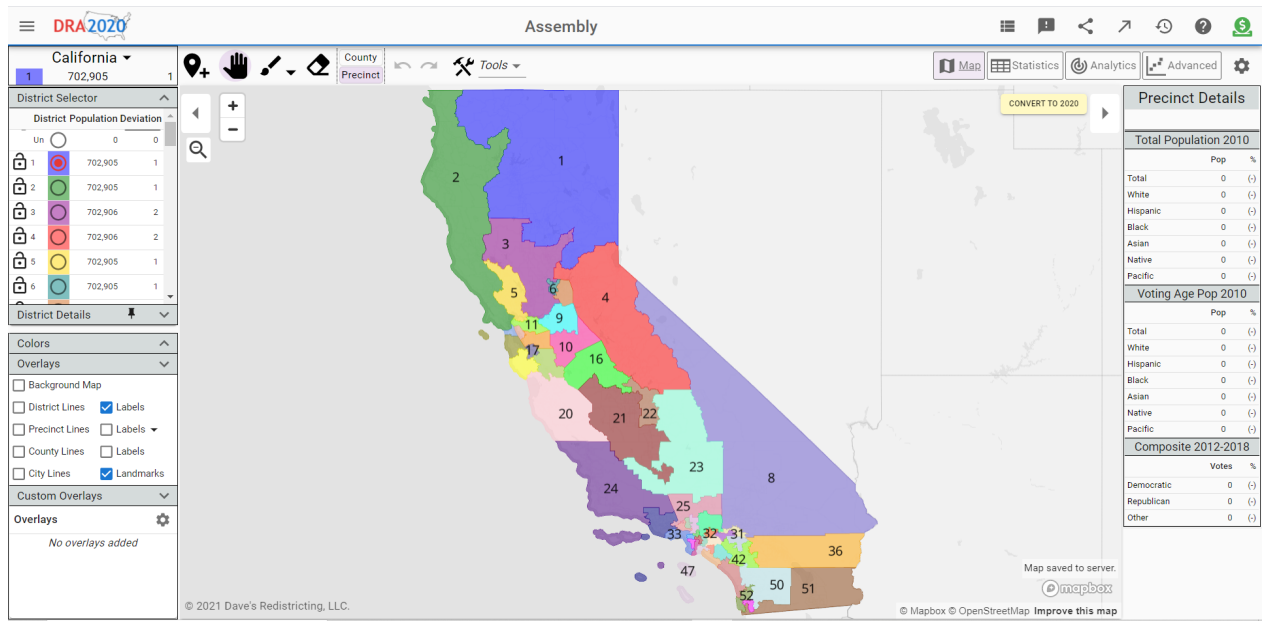
Additionally, You also can create a new map, where you can draw your community of interest as well as the whole redistricting plan for the State of California.

When you create a new plan the web app allows you to upload the SWDB geography following these steps.
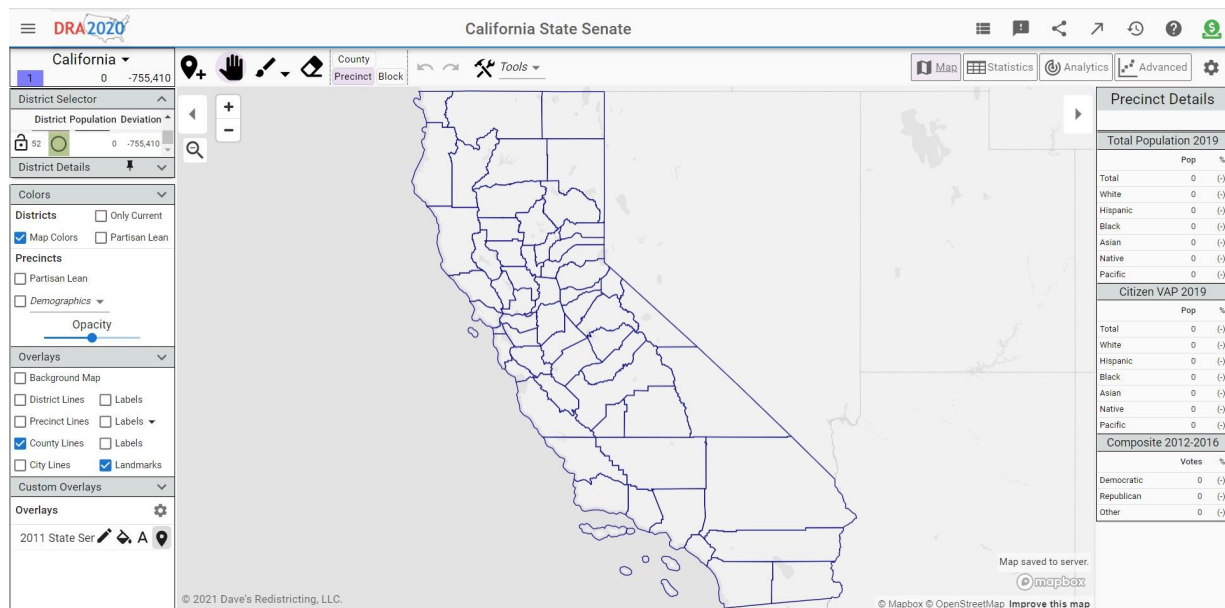
Click to select the option to create a new map. After selecting this option you can type the name of the map. Choose the state that you want to work on and the precincts to use. Please note that the only geography available for the State of California are blocks at the moment.

Once you are done filling out these fields, the next window should display on your screen.

In this window you can start to create either your community of interest or redistricting plan.
Similarly, there is an option where you can upload data from outside sources which is located at
the bottom left of the screen which is circled in red.
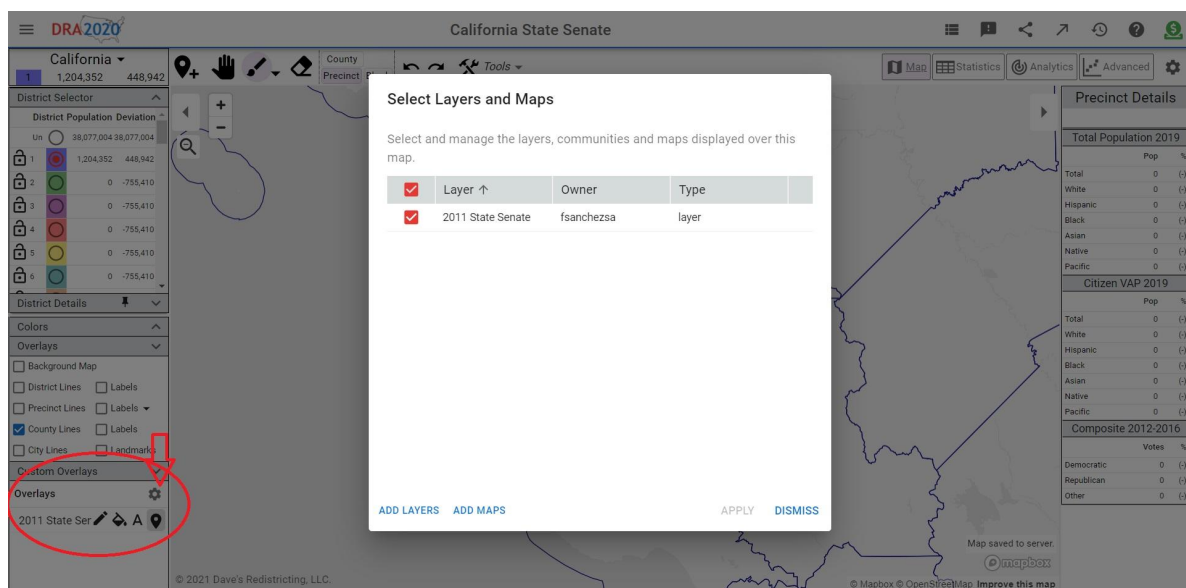

This option will give you access to add layers and maps in different formats which overlay on the
maps that you are creating.

Once you have selected the option that you want to add, the next window will give you access

to import the new files.

Import layer offers the user the option to upload the geography in Geojson format as well as

shape file (zip archive format). The shape file is available on the SWDB website.
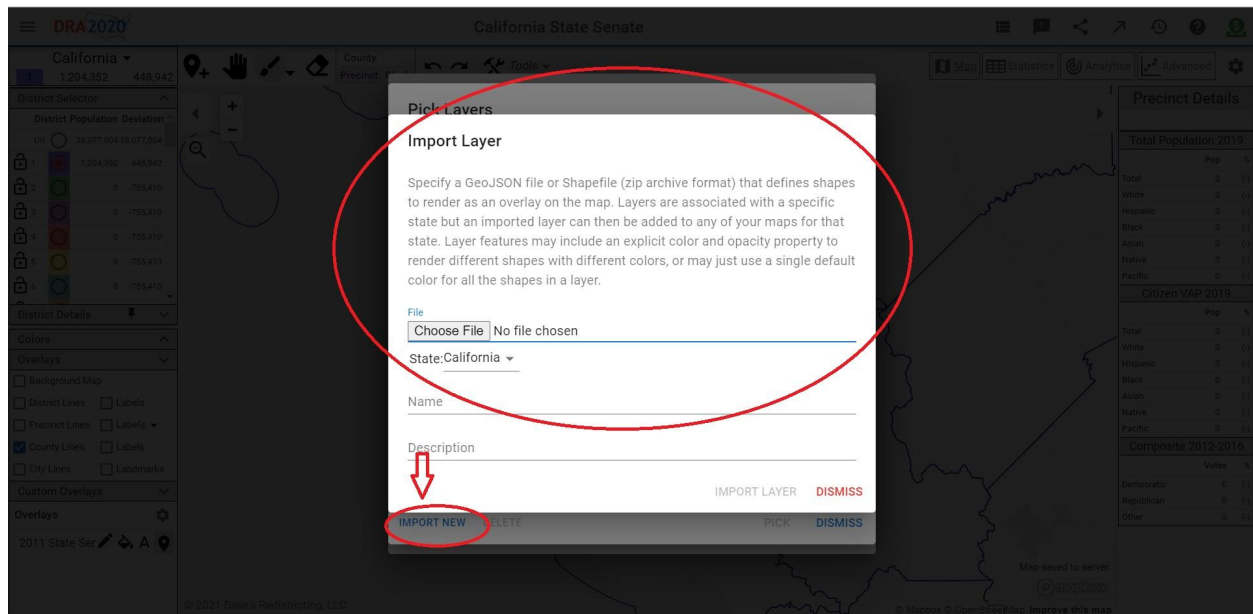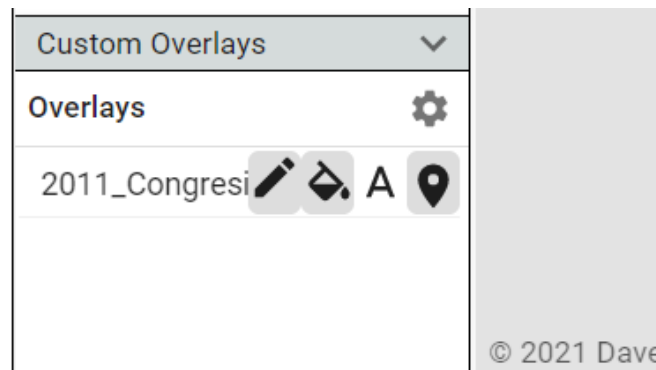

After selecting the file, the user must pick the name of the archive and select apply.
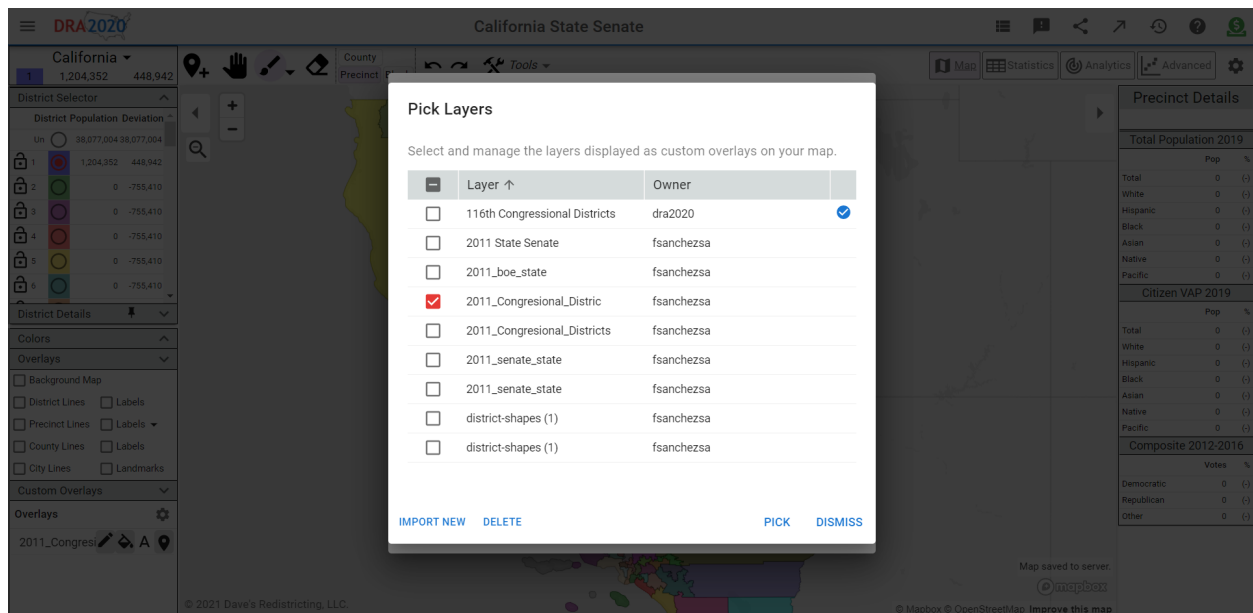
The next window will display the file that you chose which will serve as a reference for redistricting purposes.
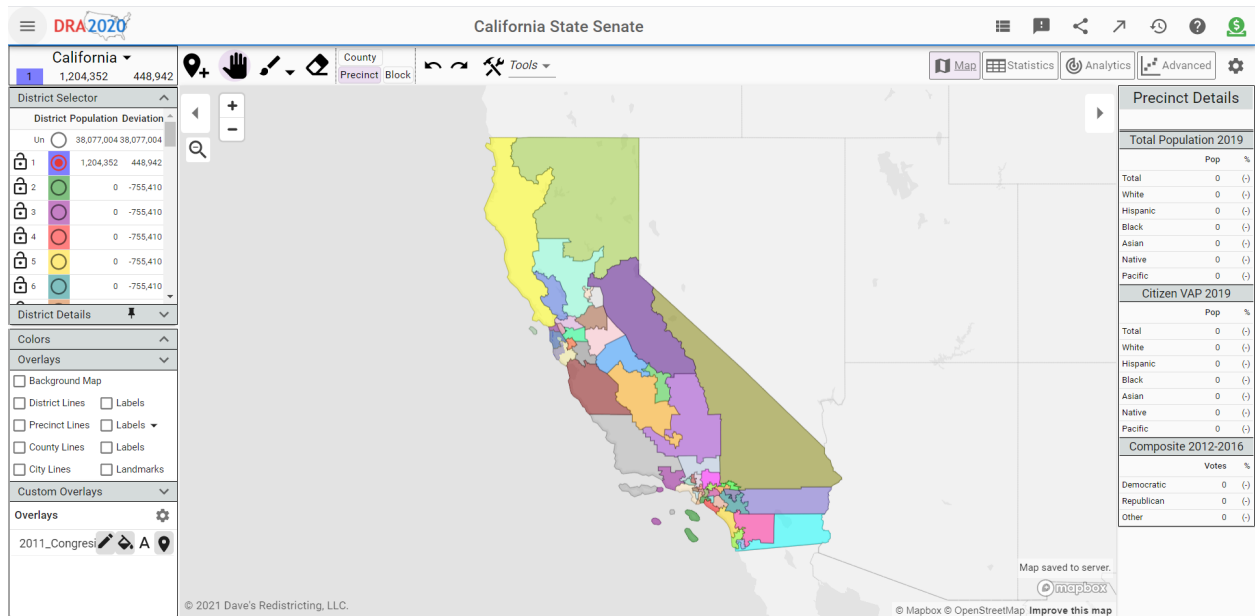

On the left bottom of this window you will be able to turn on and off lines, color, and labels of the layer that you upload from the SWDB.

Once you are done with the process of creating your community of interest or redistricting, you can export your work by selecting the arrow which is circled in red on the image below.
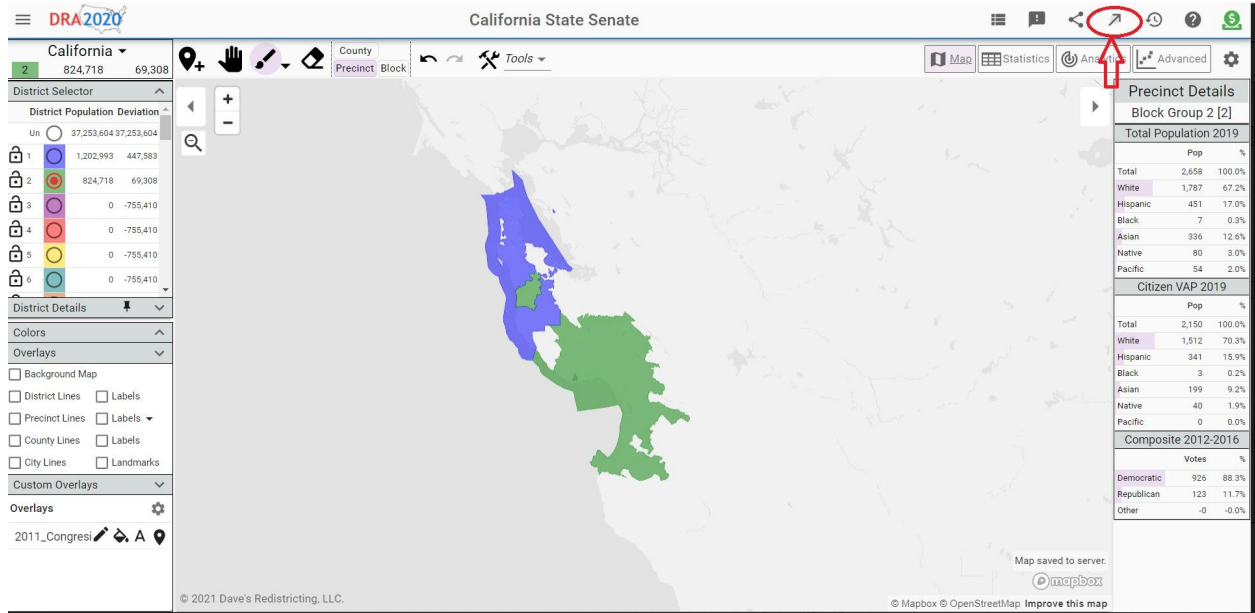
When you click this arrow called export map to file, it will display multiple formats for your

selection which are compatible to load on the qgis plugin offered by the SWDB.
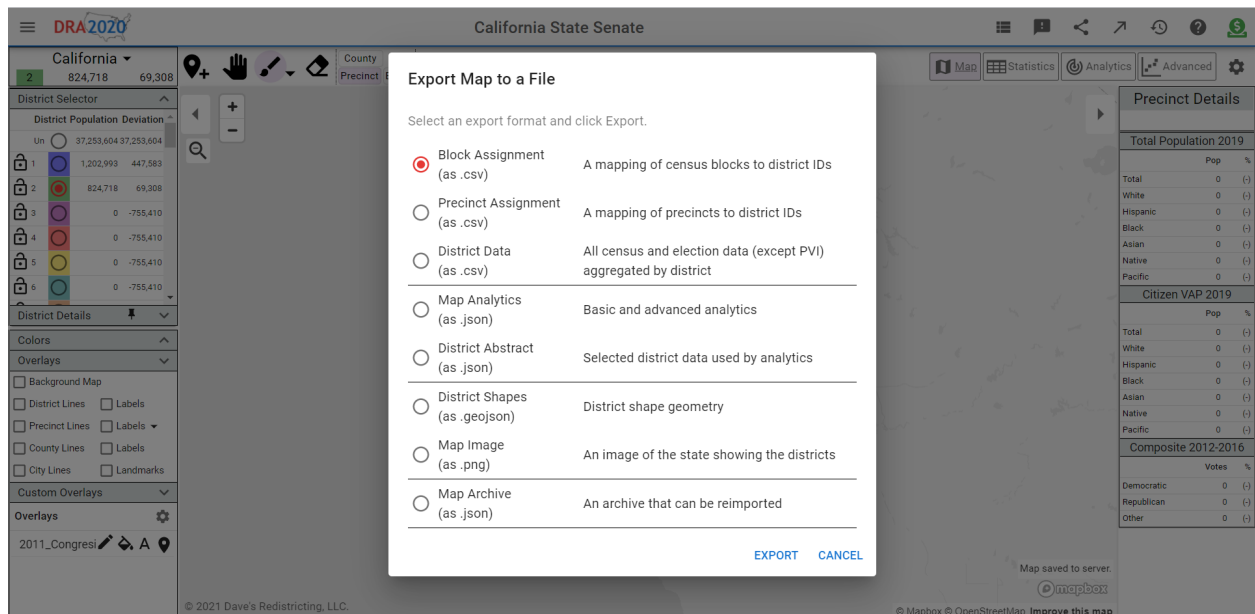
Once you are done with the process of creating your redistricting plan, you can import your work

to the QGIS plugin offered by the SWDB.

Import Files from Dave's Redistricting to Draw My CA Plugin

The SWDB through the Qgis plugin offers you the option to import Block Assignment as (.csv), and Districts Shape as (GeoJson) files from Dave's Redistricting tool, following the next steps.
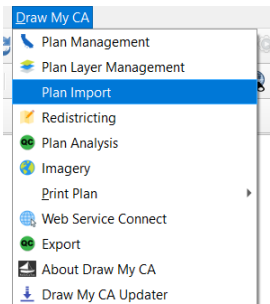
Import (csv) files

Open Draw My CA and select Plan Import.

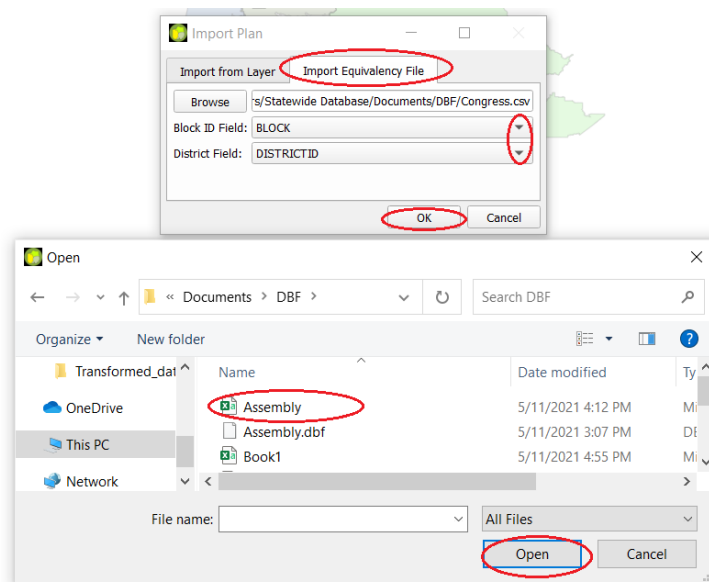After selecting Plan Import, the next window will display on your screen giving you the option to select import Equivalency File.

Browse will open up a File Explorer window where you can select your (.csv) file from your computer.
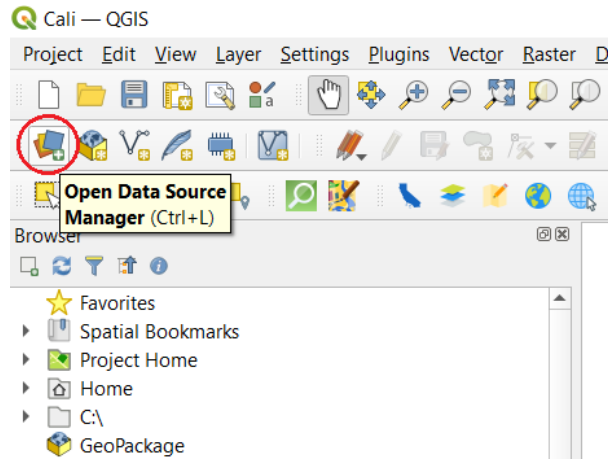
Block ID Field will allow you to select the file that contains your Block information.

District Field: will allow you to select the file that contains your district information.

Import (GeoJson) files:

First you have to select the option Open Data Source


After selecting this option, the next window will display on your screen, where you will have to select Vector, then click on Browse which will open up a file explorer window where you can select your (GeoJson) file. Afterwards, click on open and finally select add to import your file.
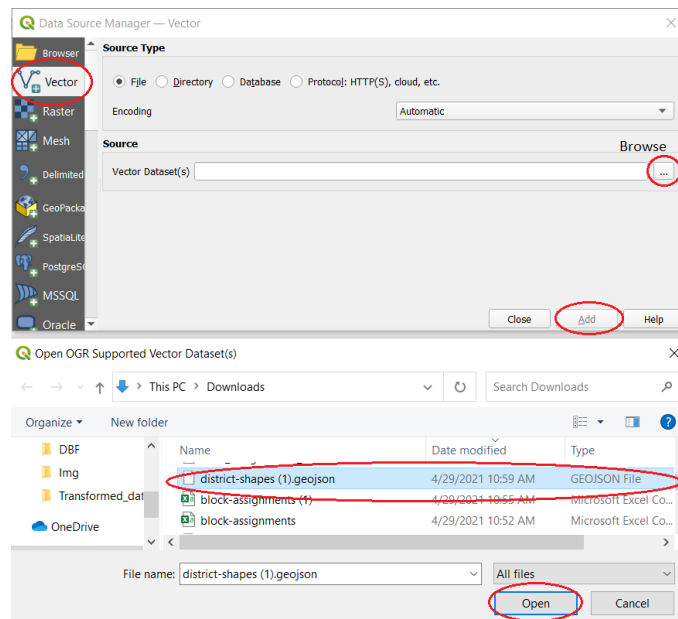
Once you have followed all the steps, your redistricting plan will show up on your screen.
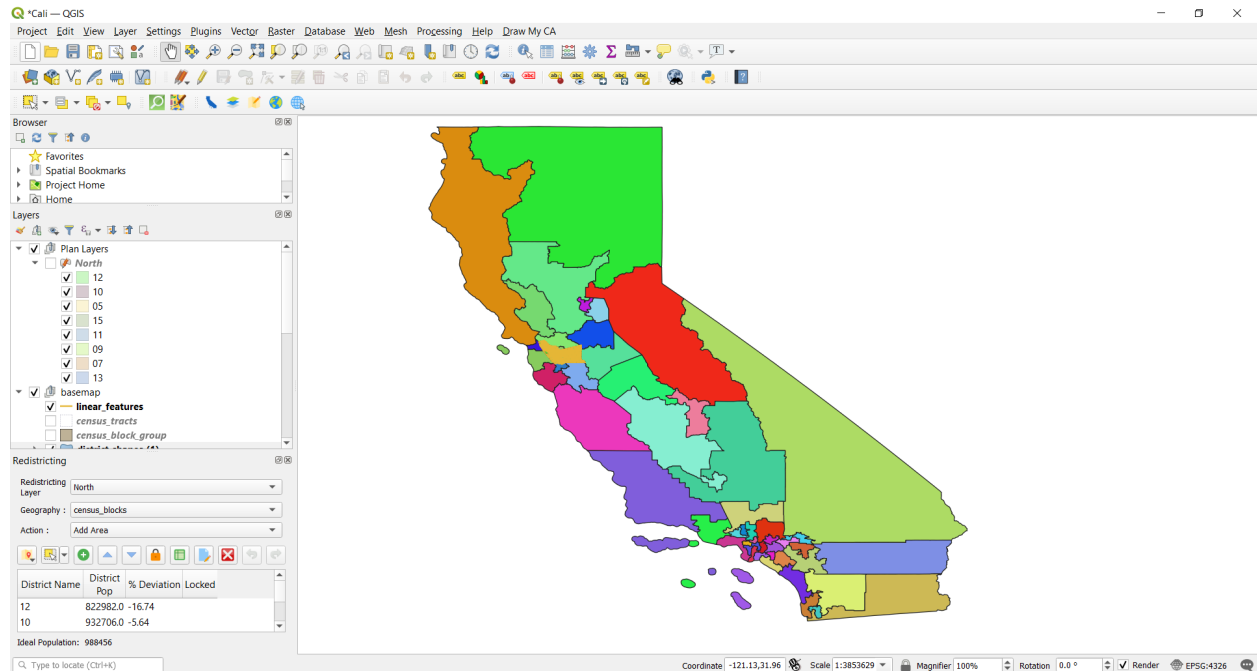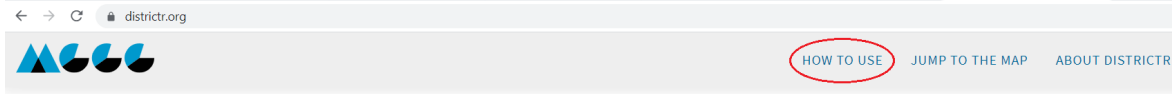
Districtr

Districtr is a web application for redistricting. In terms of functionality it works similarly to the COI tool where you can create communities of interest or a whole redistricting process. The data used for this web application comes from the Census Bureau and is based on the 2010 census block groups. This application does not require the user to create an account to use it.

At the moment, Districtr does not support uploading files from different sources besides their own json files, which are generated directly on the Districtr website. Districtr also announced that the geojson file will be available soon.

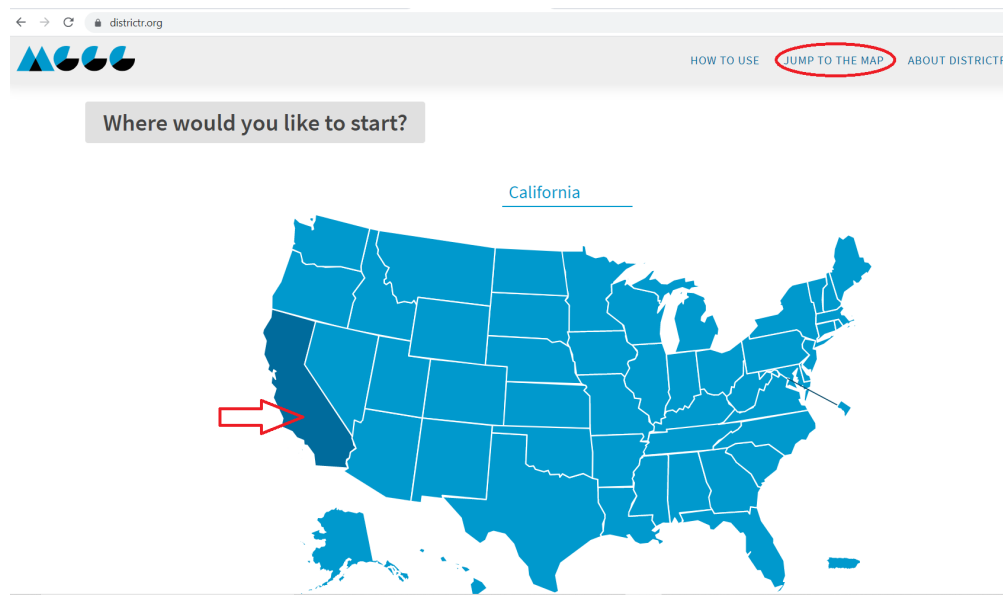Districtr also provide its own user guide which can be access by clicking How to use

Districtr User guide

In order to use Districtr the users are not required to create an account. This tool offers the public the opportunity to draw communities and districts for the redistricting process.
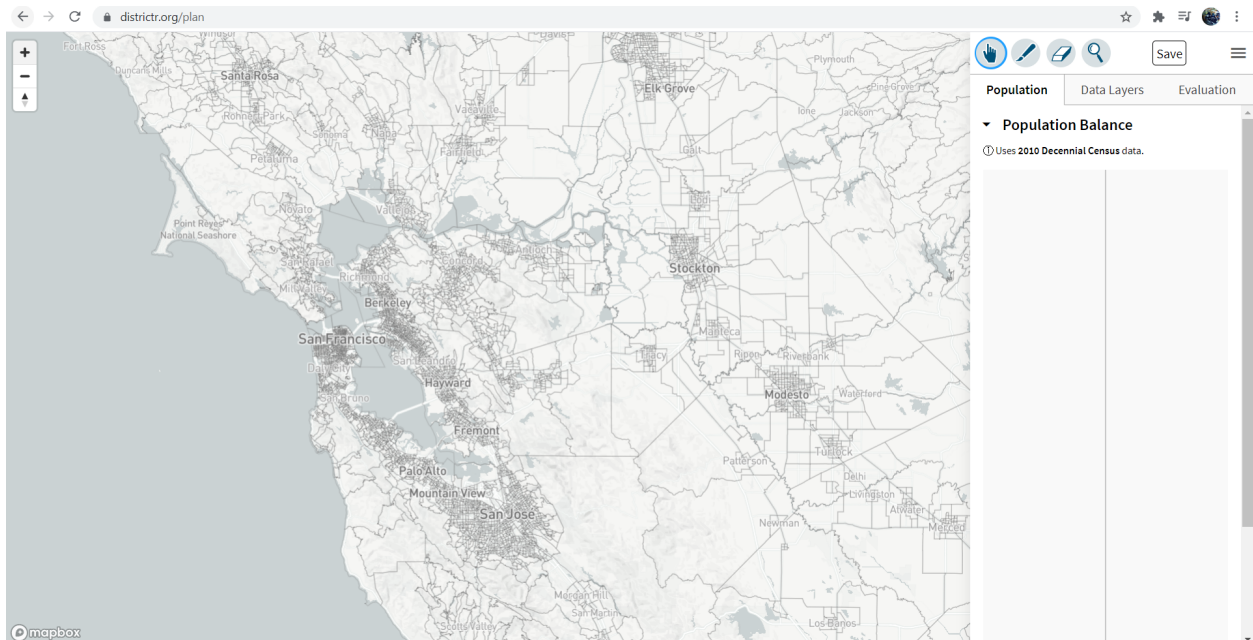
You can click jump to the map and then select the State of California

After selecting this option, you will see the next window. This window will allow you to select the different options to create your community of interest or redistricting plan.

California

Draw Districts   Draw Communities

Draw a plan from scratch

Statewide   Counties   Cities   School Districts

California
52 Congressional Districts
Built out of block groups

California
53 Congressional Districts
Built out of block groups

California
40 State Senate Districts
Built out of block groups

California
80 State Assembly Districts
Built out of block groups

Customize

What are the building blocks?
What are the data layers?

Once you have selected one of the options offered by Districr you will be able to work on it.

One of the functionalities of this tool is that the files can be exported after you are done creating your community of interest or district.

Export

You can export the files in multiple formats (shp, Geojson, and csv) by clicking one of the options circled in red.
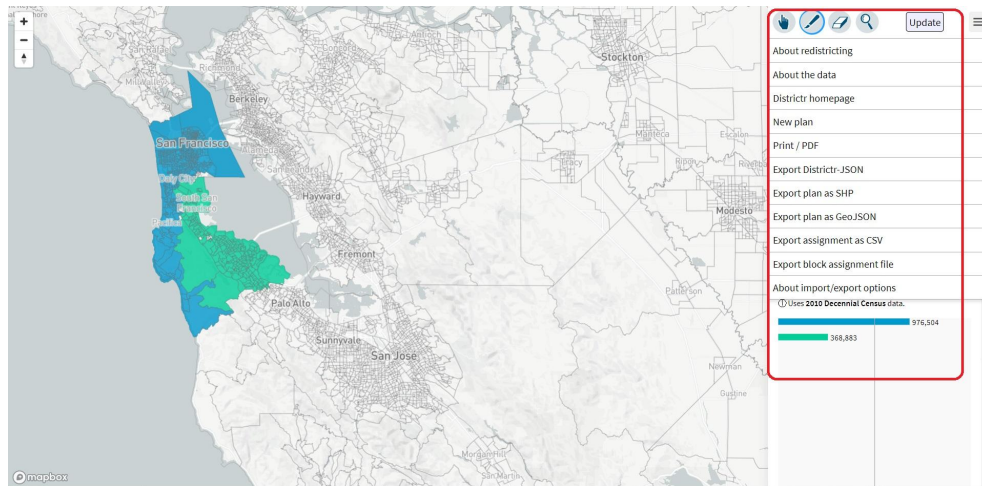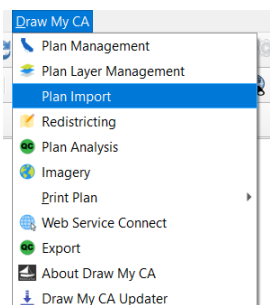

Once you are done with the process of creating your community of interest or redistricting, you can import your work to the QGIS plugin offered by the SWDB.

Import Files from Districtr to Draw My CA Plugin

The SWDB through the Qgis plugin offers you the options to import Assignment as (.csv), and Plan as (geojson, shp) files from Districr, following the next steps.

Import (csv) files

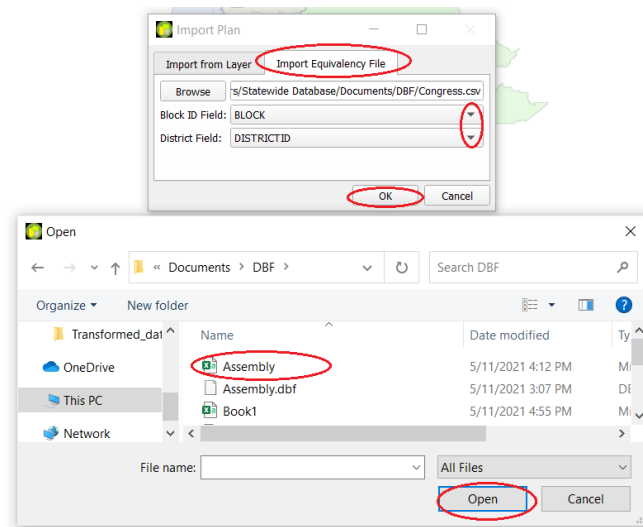Open Draw My CA and select Plan Import.

After selecting Plan Import, the next window will display on your screen giving you the option to select import Equivalency File.

Browse will open up a File Explorer window where you can select your (.csv) file from your computer.
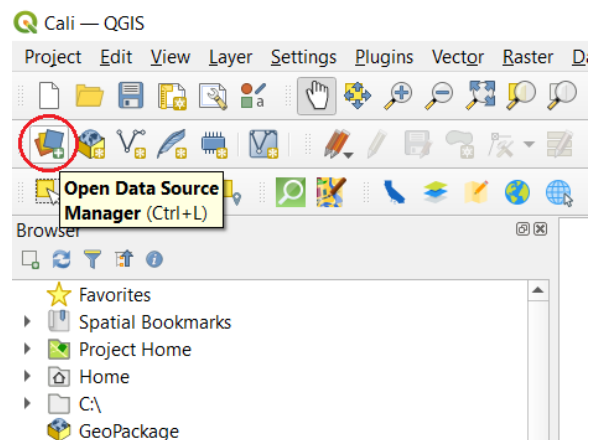
Block ID Field will allow you to select the file that contains your Block information.

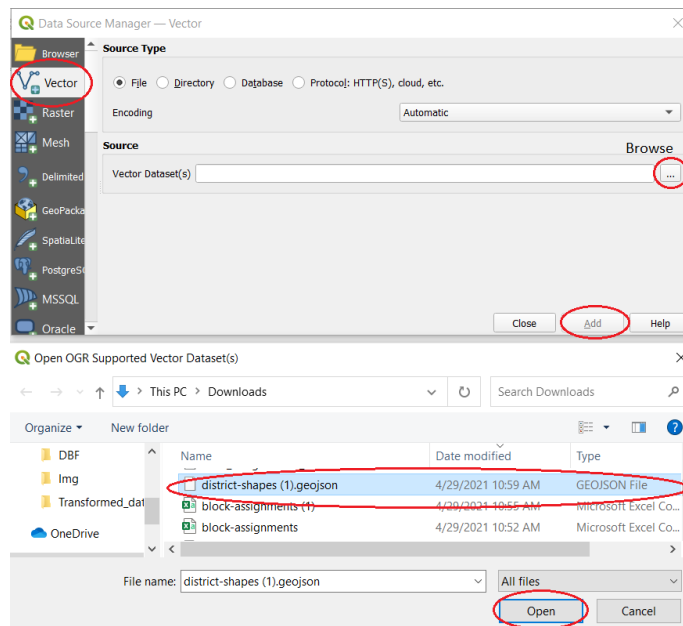District Field: will allow you to select the file that contains your district information.

Import (GeoJson and Shp) files:

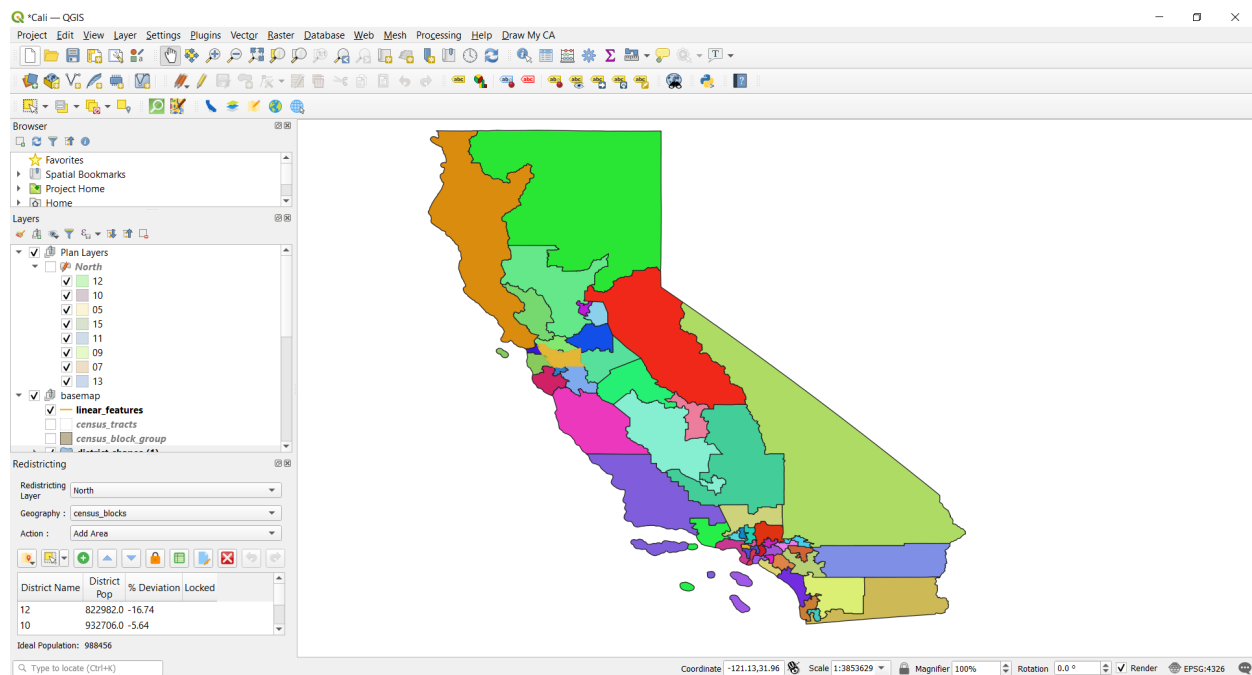First you have to select the option Open Data Source

After selecting this option, the next window will display on your screen, where you will have to select Vector. Then click on Browse which will open up a File Explorer window where you can

select your (shp or Geojson) file. Afterwards, click on open and finally click on add to import your

file.

Once you have followed all the steps your community of interest or redistricting plan will show

up on your screen.

Representable

This redistricting software is very basic and only allows users to create their own community of interest after creating a personal account. Additionally this website is supported in Spanish. Unfortunately, it does not provide any option of uploading files from outside sources as well as exporting files.

District Builder

District Builder is another web app used for redistricting with characteristics similar to the COI tools. Unfortunately, this website does not allow the user to upload files from outside sources. However, after you are done with your redistricting plan, it allows you to export in different formats such as shapefile, csv and Geojson.

https://app.districtbuilder.org/

District Builder User Guide

In order to use District Builder all users must create an account. After creating the account, the user is required to activate it through email confirmation.
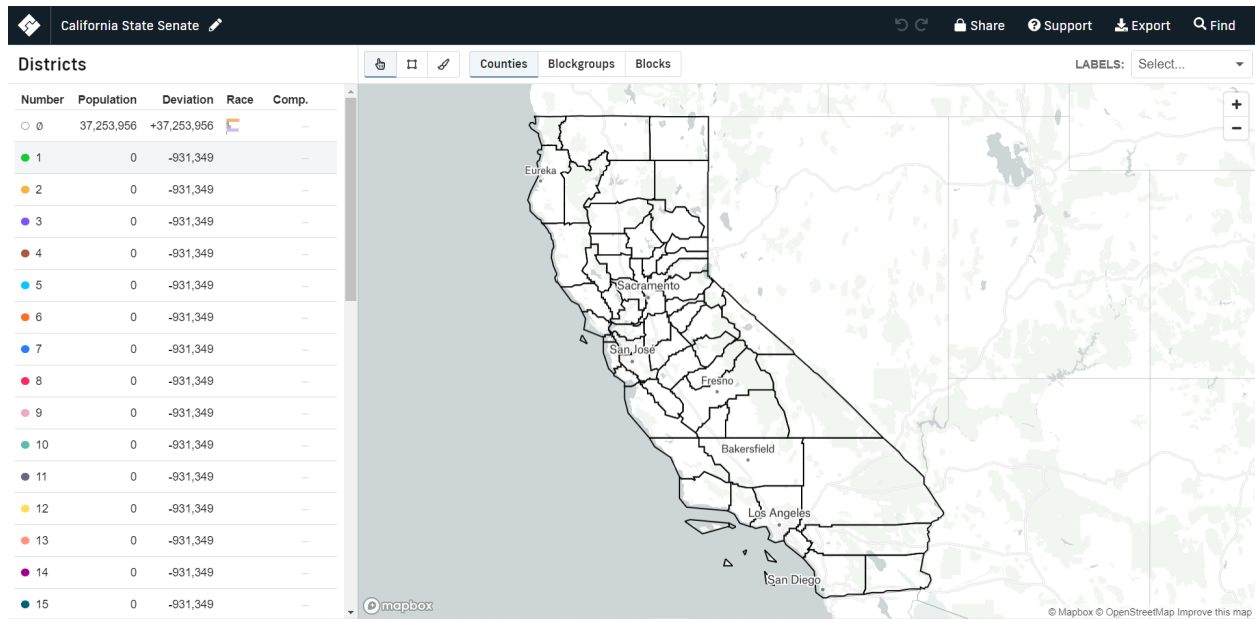
When you log in to your account, the following window should appear on your screen:
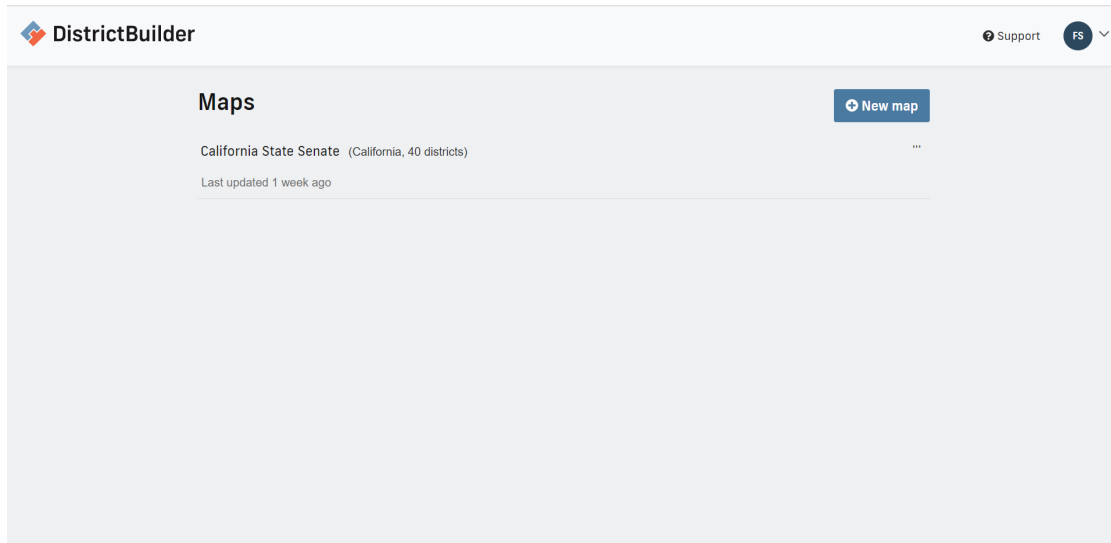
Select create new map. After selecting this option, type the map name and select the state that you want to work on. Then select create map.


Now you will be able to create different districts.

Once you are done with your redistricting plan, you can either share or export it. If you decide to share this function, there are multiple ways to do so.
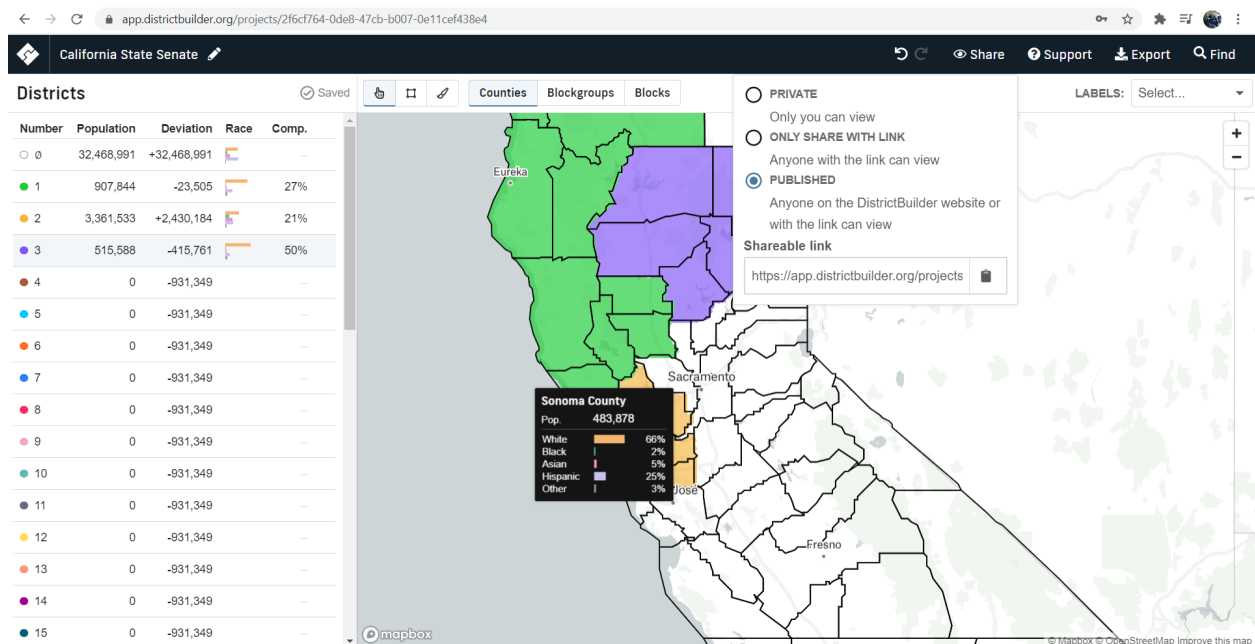
This tool also allows you to export your redistricting plan in different files including (Shapefile, CSV and GeoJson) which are supported on the qgis plugin offered by the SWBD.
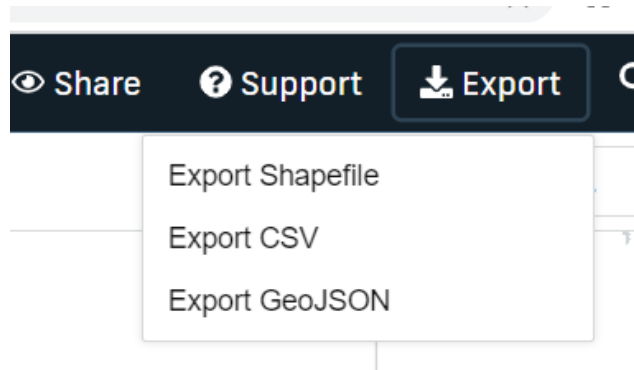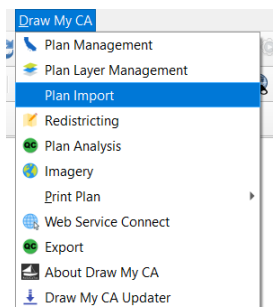
Once you are done with the process of creating your redistricting plan, you can import your work to the QGIS plugin offered by the SWDB.

Import Files from District Builder to Draw My CA Plugin

The SWDB through the Qgis plugin offers you the options to import Block as (.csv), and Districts Shape as (geojson, Shp) files from District Builderl, following the next steps.

Import (csv) files

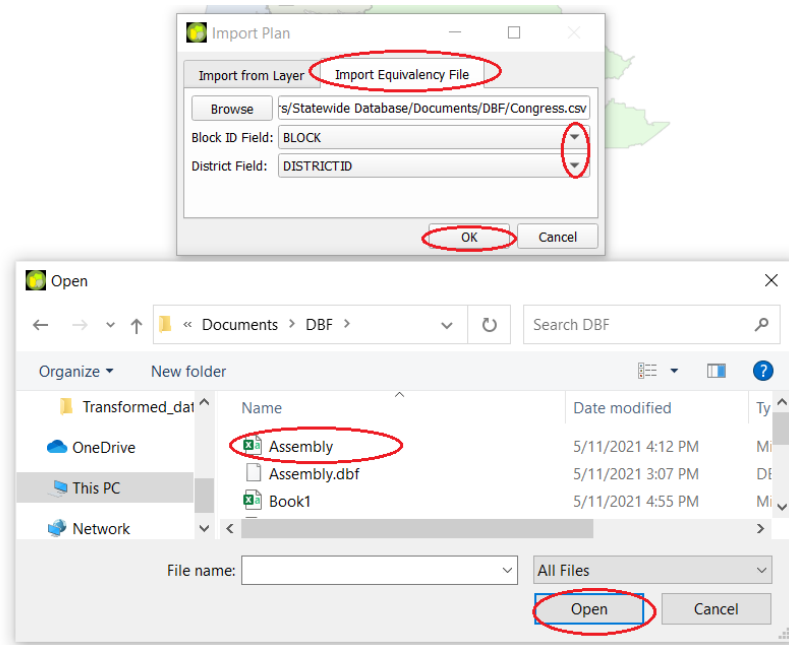Open Draw My CA and select Plan Import.

After selecting Plan Import, the next window will display on your screen giving you the option to select import Equivalency File.

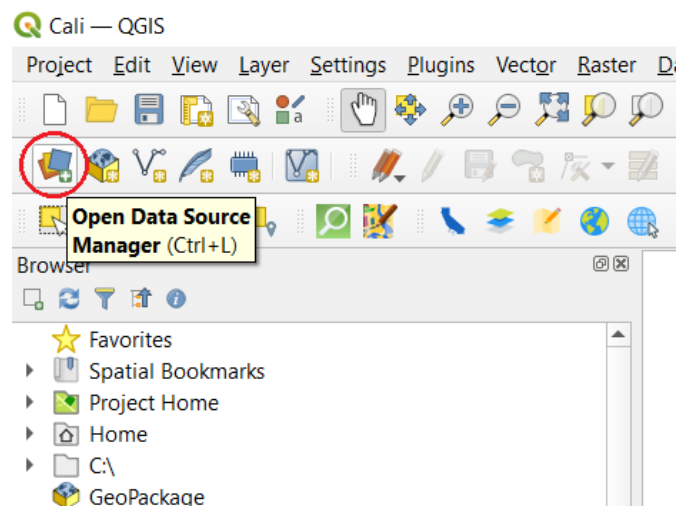Browse will open up a File Explorer window where you can select your (.csv) file from your computer.

Block ID Field will allow you to select the file that contains your Block information.

District Field: will allow you to select the file that contains your district information.
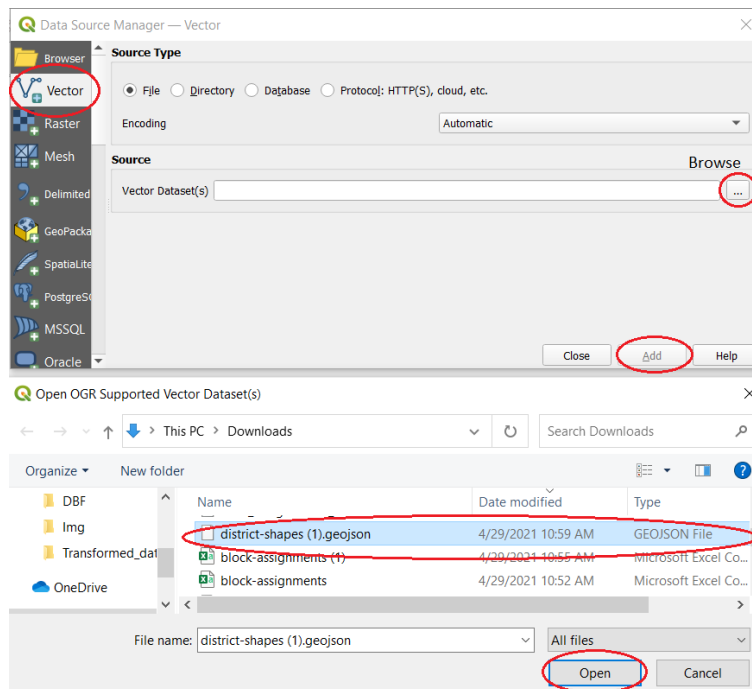

Import (GeoJson and Shp) files:

First you have to select the option Open Data Source

After selecting this option, the next window will display on your screen, where you will have to

select Vector. Then click on Browse which will open up a File Explorer window where you can

select your (shp or Geojson) file. Afterwards, click on open and finally click on add to import your file.

Once you have followed all the steps your community of interest or redistricting plan will show up on your screen.