

US-Mexico Interactive Socio-Economic Map: A User's Guide

Written and Designed by Raymond Eid

[Application Code](#)

Overview:

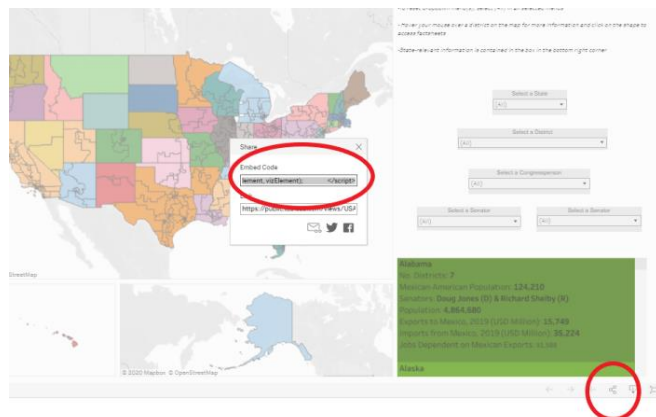
The link to the map, where it is hosted on tableau public:

https://public.tableau.com/views/USA-MexicoTradeMap/CongressionalMap?:language=en&:display_count=y&publish=yes&:origin=viz_share_lnk

The code, which can be copy and pasted into any HTML file:

```
<div class='tableauPlaceholder' id='viz1599677514463' style='position: relative'><noscript><a href='#'><img alt=' '
src='https://public.tableau.com/static/images/US/USA-
MexicoTradeMap/CongressionalMap/1_rss.png' style='border: none' /></a></noscript><object class='tableauViz'
style='display:none'><param name='host_url' value='https%3A%2F%2Fpublic.tableau.com%2F' /> <param name='embed_code_version'
value='3' /> <param name='site_root' value=' ' /><param name='name' value='USA-MexicoTradeMap/CongressionalMap' /><param
name='tabs' value='no' /><param name='toolbar' value='yes' /><param name='static_image'
value='https://public.tableau.com/static/images/US/USA-MexicoTradeMap/CongressionalMap/1.png'
/> <param name='animate_transition' value='yes' /><param name='display_static_image' value='yes' /><param name='display_spinner'
value='yes' /><param name='display_overlay' value='yes' /><param name='display_count' value='yes' /><param name='language' value='en'
/><param name='filter' value='publish=yes' /></object></div>
<script type='text/javascript'>
var divElement =
document.getElementById('viz1599677514463');
var vizElement = divElement.getElementsByTagName('object')[0];
if (
divElement.offsetWidth > 800 ) { vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWidth*0.75)+'px';} else if (
divElement.offsetWidth > 500 ) { vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWidth*0.75)+'px';} else {
vizElement.style.width='100%';vizElement.style.height='1327px';}
var scriptElement = document.createElement('script');
scriptElement.src = 'https://public.tableau.com/javascripts/api/viz_v1.js';
vizElement.parentNode.insertBefore(scriptElement,
vizElement);
</script>
```

Code is obtained by clicking the share button then copying the embedded code:



ico Trade Map

The map

1

20 Mapbox © OpenStreetMap

2

3

4

Click directly on the map or highlight your state or district using the dropdown menus below. To reset dropdown menu(s), select (All) in all selected menus.

Hover your mouse over a district on the map for more information and click on the shape to access factsheets.

State-relevant information is contained in the box in the bottom right corner.

Select a State
(All)

Select a District
(All)

Select a Congressperson
(All)

Select a Senator
(All)

Select a Senator
(All)

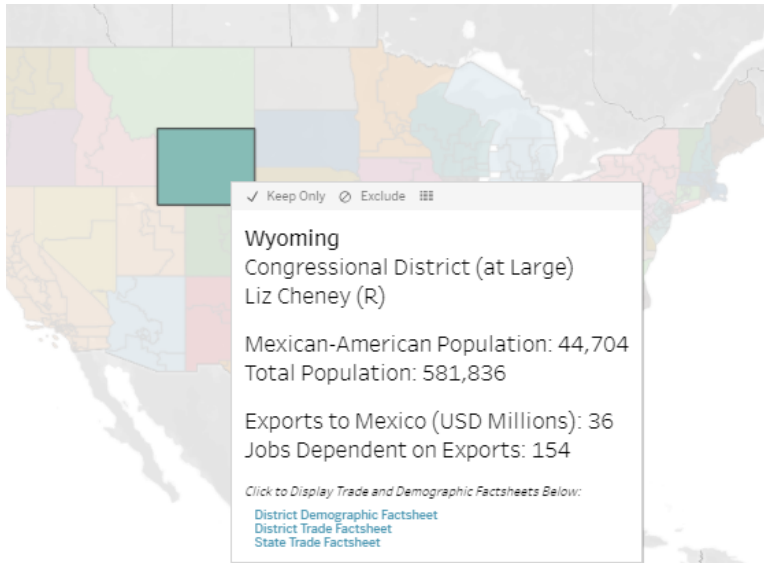
Alabama
No. Districts: 7
Mexican-American Population: 124,210
Senators: Doug Jones (D) & Richard Shelby (R)
Population: 4,864,680
Exports to Mexico, 2019 (USD Million): 15,749
Imports from Mexico, 2019 (USD Million): 35,224
Jobs Dependent on Mexican Exports: 91,588

Alaska
No. Districts: 1
Mexican-American Population: 28,049
Senators: Lisa Murkowski (R) & Dan Sullivan (R)
Population: 738,516

1. The Continental US + Alaska & Hawaii

Hover over congressional districts to display the State, district, its representative, and trade and demographic stats. Click on the congressional district to also get links to relevant factsheets (display shown below).

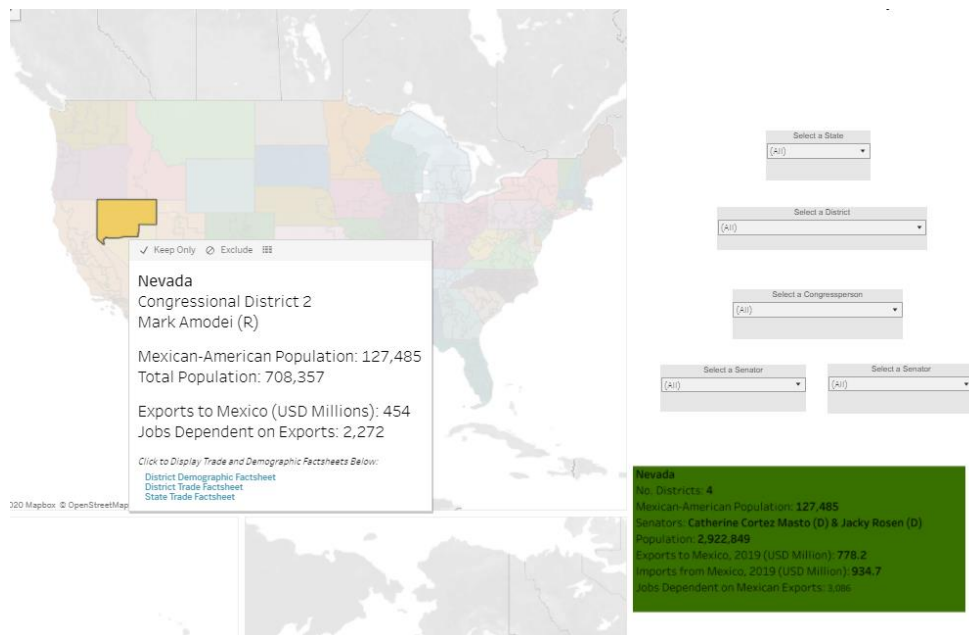
Click anywhere outside of the US to reset the map.



2. State-level stats


When a district is selected, the info box in the bottom-right corner will display only that district's state information for further inspection.

When no district is selected, the window will display all states in alphabetic order which can be scrolled through.



3. Filters

- Select a State: Will filter the map, as well as all filters below by the selected state.



Select a State

Maine ▼

Select a District

(All) ▼

(All)

Congressional District 1

Congressional District 2

Select a Congressperson

(All) ▼

Select a Senator

Susan Collins (R) ▼

Select a Senator

Angus King (I) ▼

- Select a district: Will filter the map and congressperson filters below by the selected district.



Select a State

Maine ▼

Select a District

Congressional District 1 ▼

Select a Congressperson

Chellie Pingree (D) ▼

(All)

Chellie Pingree (D)

Select a Senator

Susan Collins (R) ▼

Select a Senator

Angus King (I) ▼

- **Select a Congressperson:** Allows the search for congresspeople given filter conditions as seen in the picture below.

- **Select a Senator (x2):** Each filter contains half of all senators. This filter can also filter the map by state (see second picture below)



- Resetting filters: either select *(All)* or click on the filter button to reset each filter.



4. Interacting with the map

As noted in the instructions, hold shift & click and drag to move the map. Scroll in and out with your mouse to zoom in and out.

As noted in section one, if you have clicked a congressional district, click anywhere outside of the US to reset the map. Same goes for the Hawaii and Alaska windows.

Once you click a congressional district, please leave your mouse hovered over the district, otherwise the info window will disappear.

The districts and boundaries are underpinned by a shape file ([from the US Census bureau](#)), which is quite heavy (62,662 KB). This is the reason why the map may run slow or be laggy.

From the MexEmbData gmail's [google sheets](#)

factsheet_for_map																			
File Edit View Insert Format Data Tools Add-ons Help Last edit was on August 6																			
Congressional District 5																			
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
Name	Namesad	AWATER	Mexican-American Total Population	State Exports to	State Imports from Mexico, 2019	Sen1	Sen2	Exports to Mexico Representative	Party Affiliation	Rep and Party	Total Jobs, 2019	District	State Jobs, 2019	Nombre	Apellido				
0 Connecticut	Congressional Di	51291912	6803	713076	8.32E+08	2.95E+09	Richard Blument Christopher Mur	172.2643043 John Larson	Democrat	John Larson (D)	954	Connecticut 1st	4839	John	Larson				
1 Connecticut	Congressional Di	68693984	14011	715728	8.32E+08	2.95E+09	Richard Blument Christopher Mur	182.143014 Rosa DeLauro	Democrat	Rosa DeLauro (D)	976	Connecticut 3rd	4839	Rosa	DeLauro				
2 Connecticut	Congressional Di	2.14E+08	21072	735915	8.32E+08	2.95E+09	Richard Blument Christopher Mur	161.0743246 Jim Himes	Democrat	Jim Himes (D)	746	Connecticut 4th	4839	Jim	Himes				
3 Connecticut	Congressional D	88053659	8570	711761	8.32E+08	2.95E+09	Richard Blument Christopher Mur	194.7867418 Jahana Hayes	Democrat	Jahana Hayes (D)	1035	Connecticut 5th	4839	Jahana	Hayes				
4 Connecticut	Congressional Di	2.98E+08	6927	705024	8.32E+08	2.95E+09	Richard Blument Christopher Mur	215.0285053 Joe Courtney	Democrat	Joe Courtney (D)	1128	Connecticut 2nd	4839	Joe	Courtney				
5 Maine	Congressional Di	4.73E+09	3309	679024	50617837	89645116 Susan Collins (R) Angus King (I)	20.89688784 Chellie Pingree	Democrat	Chellie Pingree (I)	109	Maine 1st	249	Chellie	Pingree					
6 Maine	Congressional Di	7.01E+09	2942	653789	50617837	89645116 Susan Collins (R) Angus King (I)	28.85615016 Jared Golden	Democrat	Jared Golden (D)	140	Maine 2nd	249	Jared	Golden					
7 Massachusetts	Congressional Di	1.30E+08	5018	730959	1.94E+09	3.06E+09 Edward Markey Elizabeth Warren	241.9967399 Richie Neal	Democrat	Richie Neal (D)	1370	Massachusetts 1	12721	Richie	Neal					
8 Massachusetts	Congressional Di	76095039	5592	763936	1.94E+09	3.06E+09 Edward Markey Elizabeth Warren	535.5672461 Lori Trahan	Democrat	Lori Trahan (D)	2549	Massachusetts 3	12721	Lori	Trahan					
9 Massachusetts	Congressional Di	58468410	7283	766241	1.94E+09	3.06E+09 Edward Markey Elizabeth Warren	269.3286527 Katherine Clark	Democrat	Katherine Clark (D)	1251	Massachusetts 5	12721	Katherine	Clark					
10 Massachusetts	Congressional Di	86329577	4030	754622	1.94E+09	3.06E+09 Edward Markey Elizabeth Warren	287.4282279 Joe Kennedy	Democrat	Joe Kennedy (D)	1511	Massachusetts 4	12721	Joe	Kennedy					
11 Massachusetts	Congressional Di	97438634	9544	795850	1.94E+09	3.06E+09 Edward Markey Elizabeth Warren	45.36634347 Ayanna Pressley	Democrat	Ayanna Pressley (D)	229	Massachusetts 7	12721	Ayanna	Pressley					

Variables

Name: State name

Namelsad: District name and number

AWATER: Total Water Area of the State (used to merge shape file and factsheet data in Tableau)

Mexican-American Population: District Population according to the [ACS5](#).

Total Population: same as above

State Exports to Mexico, 2019: State-level data acquired by Iza

State Imports from Mexico, 2019: Same as above

Sen1: A list of one senator from each state

Sen2: A list of the other senator from each state

Exports to Mexico, 2018 (USD Million): NAFTA Data acquired by Edgar

Representative: The district's congressperson

Party Affiliation: The congressperson's party

Rep and Party: The rep and their party concatenated

Total Jobs, 2019: NAFTA Data acquired by Edgar

District: The state and district number concatenated (used in factsheets)

State Jobs, 2017: State-level data acquired by Iza

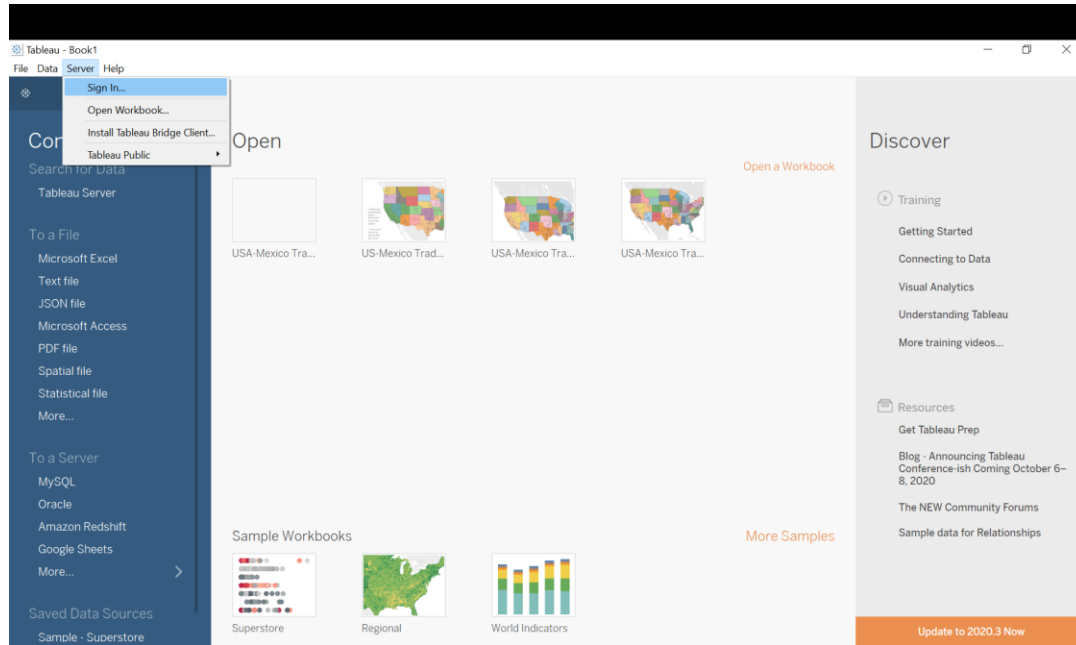
Updating map Data

Download Tableau Desktop (requires subscription, free trial available):

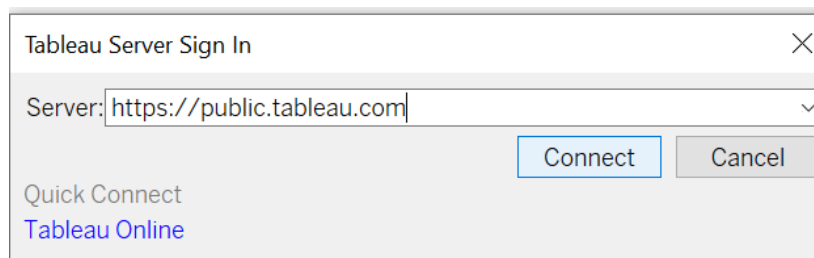
<https://www.tableau.com/products/desktop>



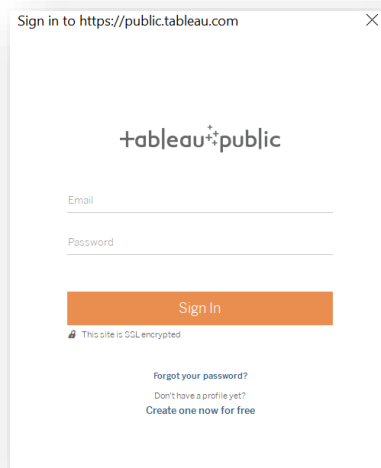
When you open Tableau, you'll see the screen below. Click on server and sign in:



This popup will come up next and autopopulate with Tableau Public. Click connect.



Sign in with credentials:



Sign in to https://public.tableau.com

+tableau+public

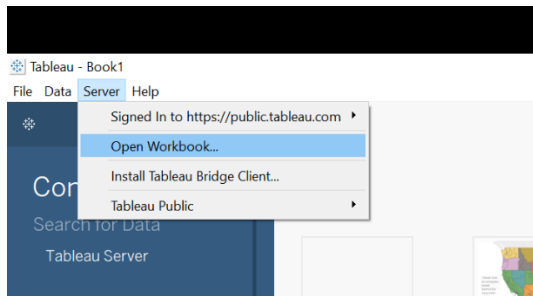
Email

Password

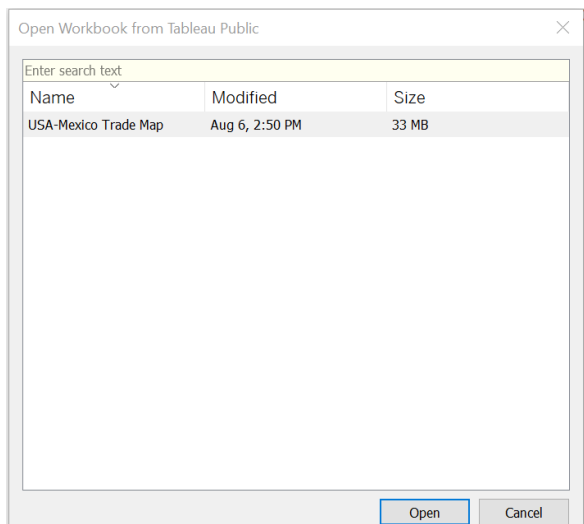
This site is SSL encrypted

[Forgot your password?](#)
[Don't have a profile yet? Create one now for free](#)

Next click on Server -> Open Workbook..



From the menu, select the map:

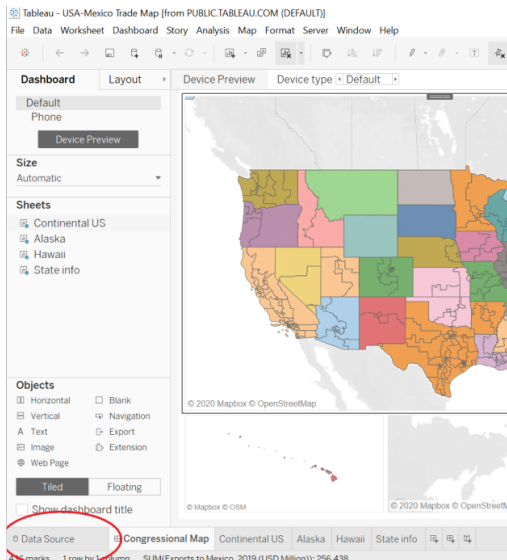


Open Workbook from Tableau Public

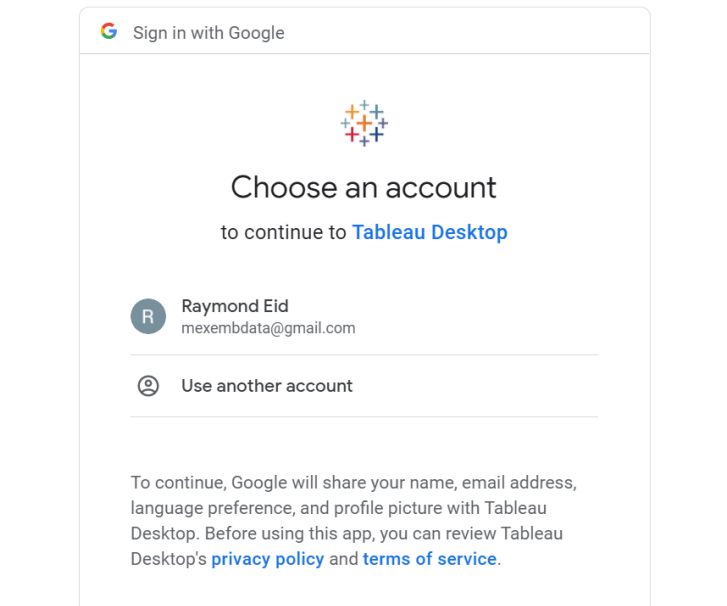
Enter search text

Name	Modified	Size
USA-Mexico Trade Map	Aug 6, 2:50 PM	33 MB

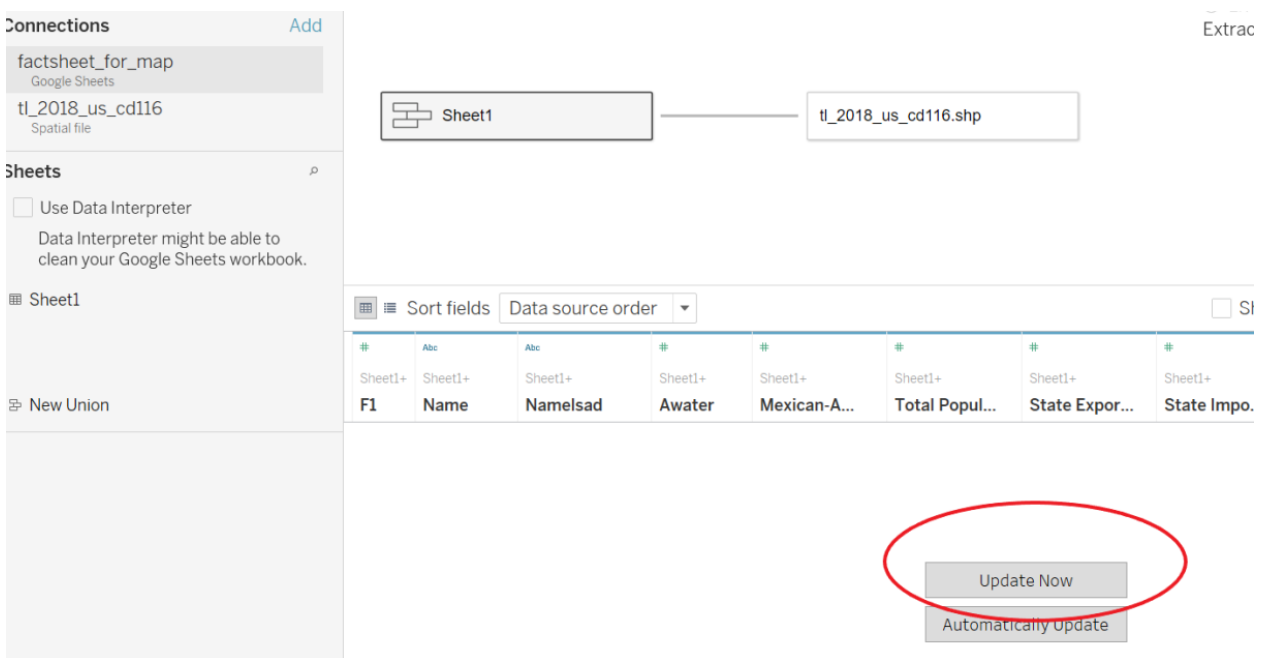
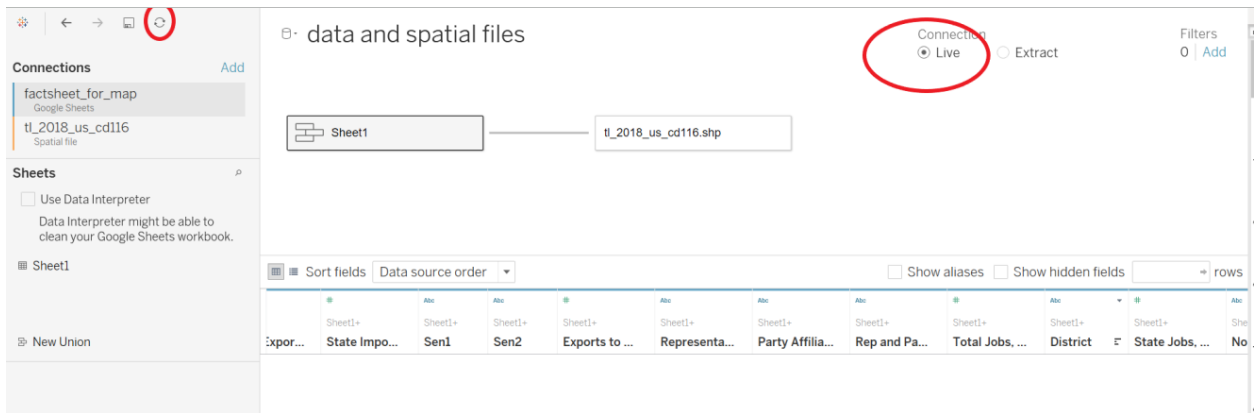
The workbook will open. Click *Data Source* in the bottom-right corner



A pop-up internet window will open prompting you to sign into gmail. Sign with in the MexEmbData account:

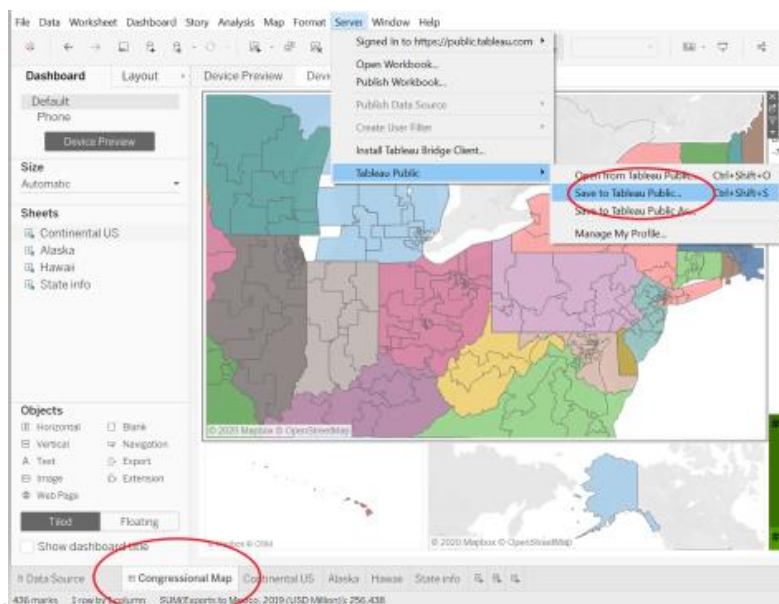
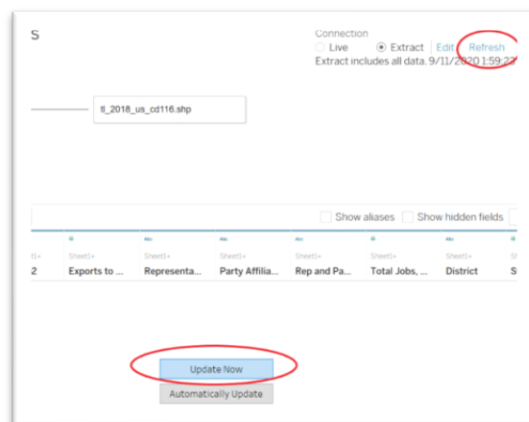
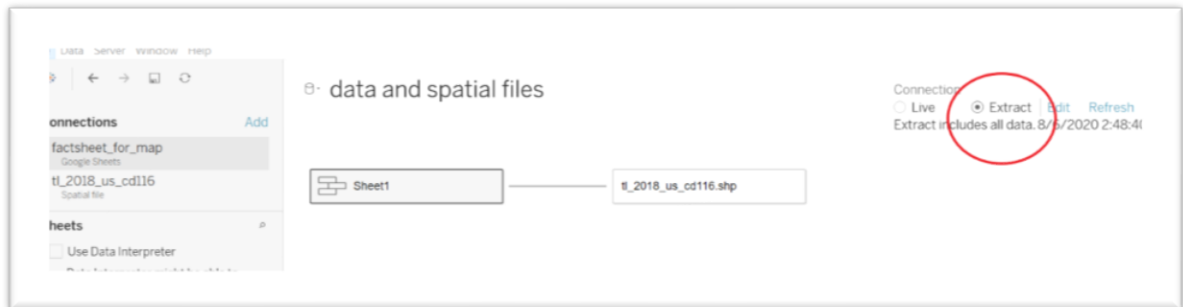


You are now able to update the data source! Make changes to the google sheet underpinning the map data and update the Tableau data doing the following:



This will allow you to update senators and representatives in the map directly. Change the connect to extract (picture 1), refresh then update the data (picture 2), then switch the the Congressional map Dashboard and click Server -> Tableau Public -> Save to Tableau Public (picture 3). It is important that all of these steps are performed in the right order for the save to be successful.

The data update and the save will take a moment before the dashboard and server are updated, respectively.



The updated Tableau dashboard should pop up in an internet browser and the data will be updated. These steps may be meticulous but are the only way to update the map.