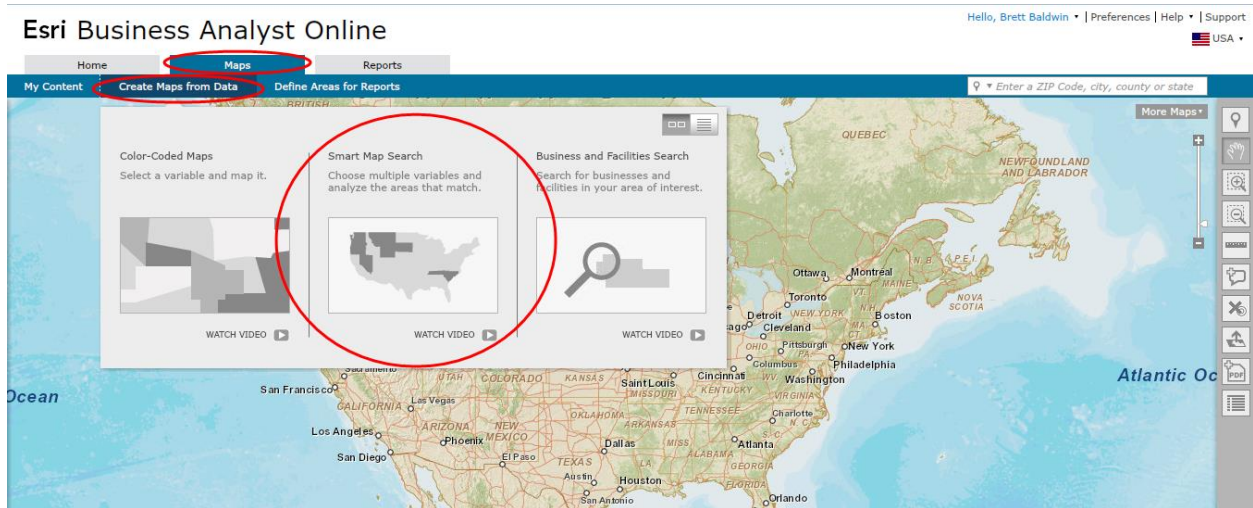


## Smart Map Search

BAO's Smart Map Search allows users to display up to 5 demographic variables on a map.

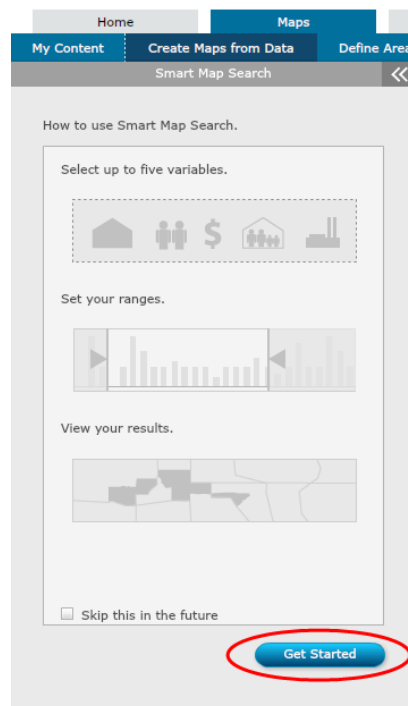
After logging into BAO, click **"Maps"** and then click **"Create Maps from Data."** Next, click **"Smart Map Search."**



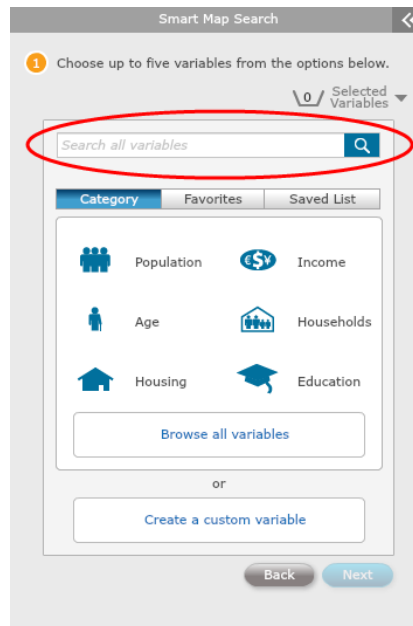
**NOTE:** Before proceeding, users should use the **"Search"** tool to zoom to the desired area of interest.

### Step 1 – Select Demographic Variables

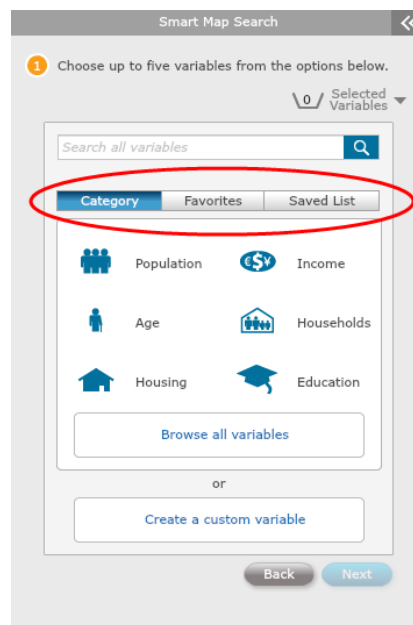
Click **"Get Started"** to proceed to the first step to select up to 5 demographic variables.



Users may use the **“Search”** tool to manually search for demographic variables.

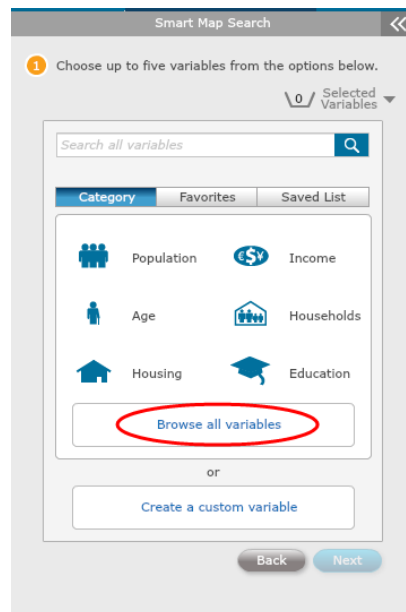


Users may select demographic variables by **“Category,”** a list of previously saved **“Favorites”** demographic variables or a **“Saved List”** of previously selected demographic variables.

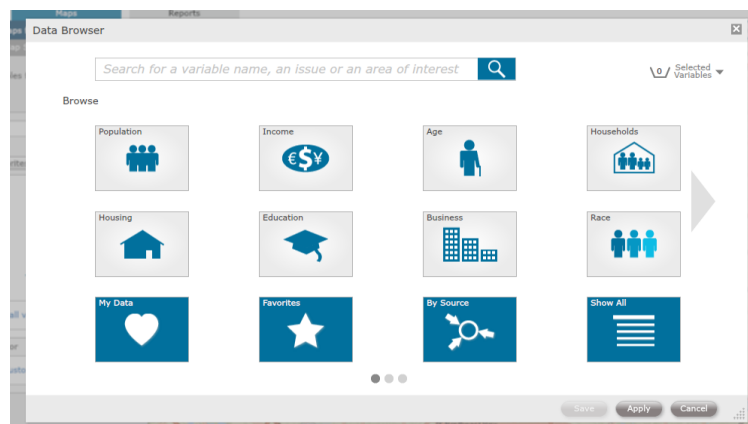


## Browse All Variables

To view a list of all demographic variables, click **“Browse all variables.”**

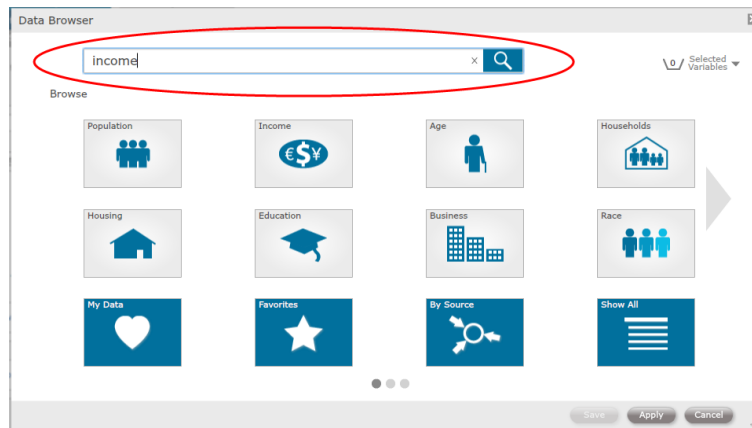


The **“Data Browser”** window will appear on your screen. Users may use the **“Search”** tool to manually search for demographic variables or select one of the demographic categories in the **“Browse”** section.

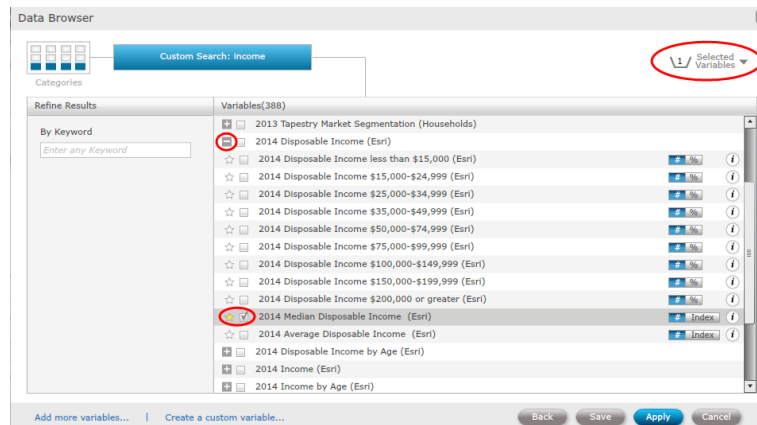


## Option 1 - Search for Demographic Variables

Begin by typing in a demographic variable (i.e. income, population, households etc...) and click **"Enter"** on your keyboard, or click the search icon.

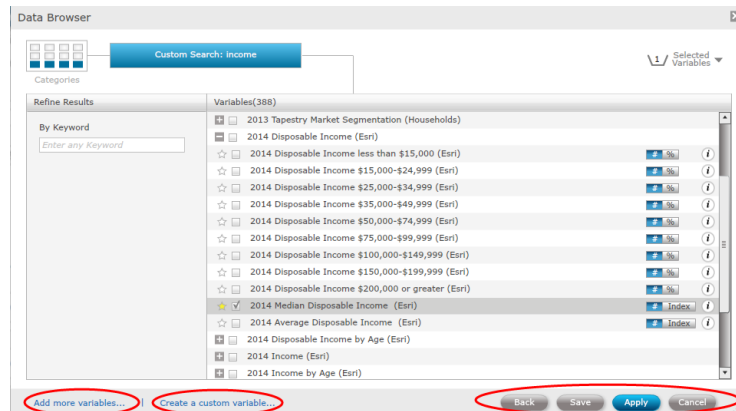


Click the **"+"** icon to display more results for a demographic variable category and check the box next to the desired variable to add this to your **"Selected Variables."** After selecting a variable, it will be added to the **"Selected Variables"** list in the upper right corner.



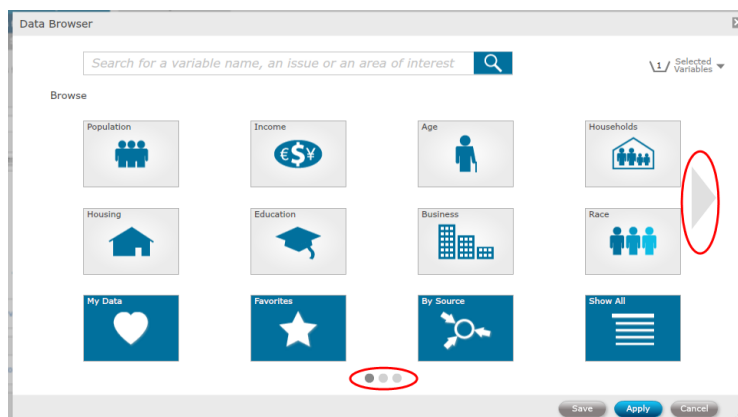
**NOTE:** If users would like to add this demographic variable to their favorites, click the **"Star"** icon next to the name of the variable.

Click the **“Add more variables”** to continue searching for variables. Click **“Create a custom variable”** to create and save a custom demographic variable. Click **“Back”** to move to the previous step in the workflow. Click **“Save”** to save the selected demographic variables to a list. Click **“Apply”** to map the variables. Click **“Cancel”** to exit the Smart Map Search workflow.

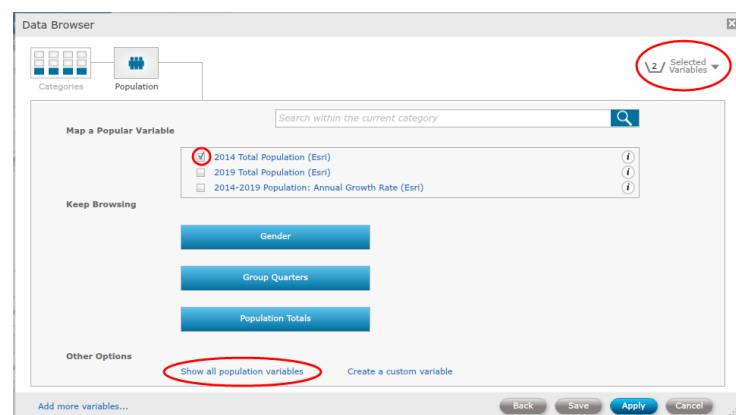


## Option 2 - Browse for Demographic Variables

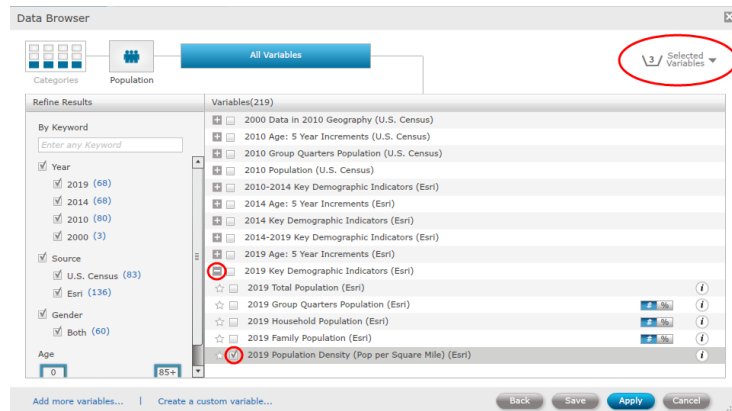
Users may select from popular demographic variable categories within the **“Browse”** section. Click the arrow on the right side of the workflow or one of the gray buttons at the bottom to view more variables.



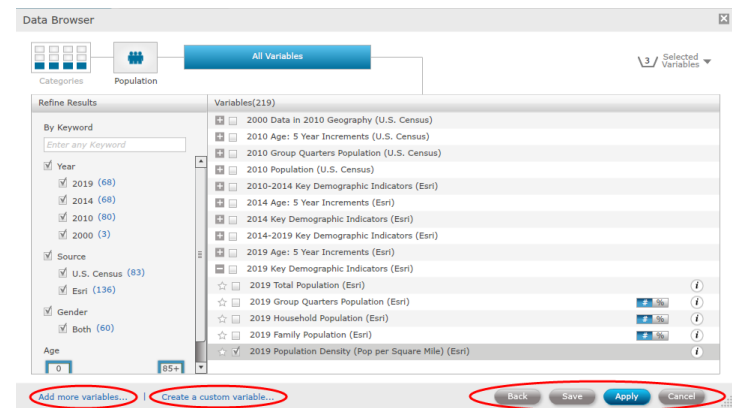
In this example, Population was selected. Check the box next to the desired variable to add this to your **“Selected Variables”**. Click **“Show All Population Variables”** to display a



If **“Show All Population Variables”** was selected, a new workflow will open displaying all population demographic variables. Click the **“+”** icon to display more results for a demographic variable category and check the box next to the desired variable to add this to your **“Selected Variables”**. After selecting a variable, it will be added to the **“Selected Variables”** list in the upper right corner.

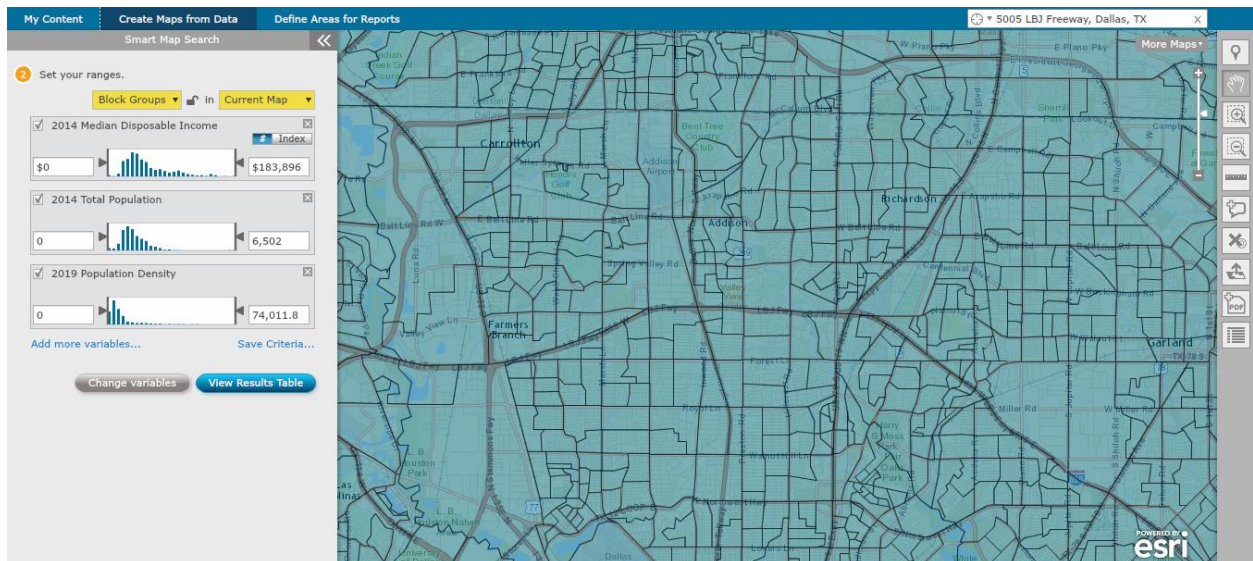


Click the **“Add more variables”** to continue searching for variables. Click **“Create a custom variable”** to create and save a custom demographic variable. Click **“Back”** to move to the previous step in the workflow. Click **“Save”** to save the selected demographic variables to a list. Click **“Apply”** to map the variables. Click **“Cancel”** to exit the Smart Map Search workflow.

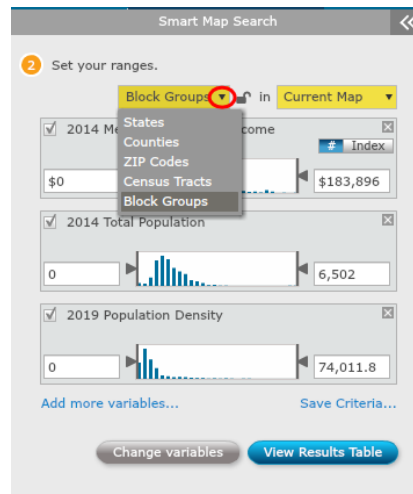


## Step 2 – Set Ranges

Once all variables have been mapped, users may now set ranges. Users may select and lock the desired geographic level, and use the sliders to adjust the variable ranges.



To change the geographic level, click the arrow next to the default geographic level and select the desired level. Click the **“Lock”** icon next to the geographic level field to ensure that the geographic level does not change when zooming in or out.



You may use the sliders to eliminate certain demographic variable criteria you wish not to display on a map by moving the sliders to the left or right.

The image shows the 'Smart Map Search' interface. At the top, it says 'Set your ranges.' Below this are two dropdown menus: 'Block Groups' and 'Current Map'. There are three demographic variables listed, each with a checkbox and a histogram:

- ☒ 2014 Median Disposable Income: Range from \$34,953 to \$183,896.
- ☒ 2014 Total Population: Range from 0 to 6,969.
- ☒ 2019 Population Density: Range from 0 to 74,011.8.

Below the histograms are two buttons: 'Add more variables...' and 'Save Criteria...'. At the bottom are two buttons: 'Change variables' and 'View Results Table'.

Click “Add more variables” to add more demographic variables. Click “Save Criteria” to save the selected demographic variables to a list. Click “Change Variables” to change the demographic variables.

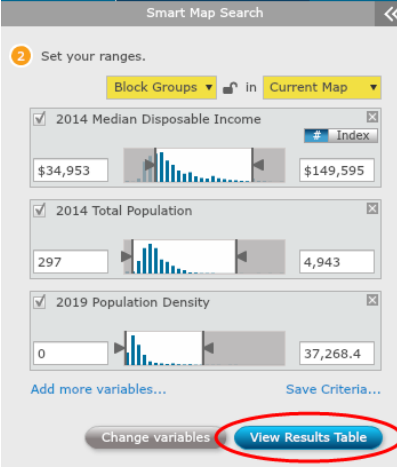
The image shows the 'Smart Map Search' interface with the same demographic variables as the first image. The sliders have been moved to different ranges:

- ☒ 2014 Median Disposable Income: Range from \$34,953 to \$149,595.
- ☒ 2014 Total Population: Range from 297 to 4,943.
- ☒ 2019 Population Density: Range from 0 to 37,268.4.

The 'Add more variables...' and 'Save Criteria...' buttons are circled in red. The 'Change variables' and 'View Results Table' buttons are also present at the bottom.



Click the **“View Results Table”** to view a list of demographic variable values based upon the selected geography or change the overlay color and transparency.



Smart Map Search

2 Set your ranges.

Block Groups in Current Map

2014 Median Disposable Income

\$34,953 \$149,595

2014 Total Population

297 4,943

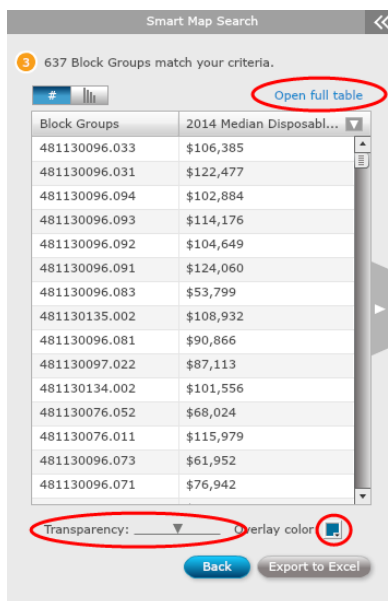
2019 Population Density

0 37,268.4

Add more variables... Save Criteria...

Change variables View Results Table

To view a full table of results for all selected demographic variables, click **“Open Full Table”**. Users may change the overlay color and transparency here.



Smart Map Search

3 637 Block Groups match your criteria.

Open full table

Block Groups	2014 Median Disposabl...
481130096.033	\$106,385
481130096.031	\$122,477
481130096.094	\$102,884
481130096.093	\$114,176
481130096.092	\$104,649
481130096.091	\$124,060
481130096.083	\$53,799
481130135.002	\$108,932
481130096.081	\$90,866
481130097.022	\$87,113
481130134.002	\$101,556
481130076.052	\$68,024
481130076.011	\$115,979
481130096.073	\$61,952
481130096.071	\$76,942

Transparency: Overlay color

Back Export to Excel

To export the results to an excel file, click **“Export to Excel”**. Click **“Back”** to move to the previous workflow.

Smart Map Search

637 Block Groups match your criteria.

Minimize table

Block Groups	2014 Median Disposable I...	2014 Total Population	2019 Population Density
481130096.033	\$106,385	1,824	3,292.3
481130096.031	\$122,477	812	3,961
481130096.094	\$102,884	617	2,883
481130096.093	\$114,176	872	3,061.9
481130096.092	\$104,649	752	2,658.6
481130096.091	\$124,060	659	2,898.8
481130096.083	\$53,799	1,599	4,148.4
481130135.002	\$108,932	1,480	3,071.5
481130096.081	\$90,866	741	3,578.1
481130097.022	\$87,113	2,163	4,483.9
481130134.002	\$101,556	1,173	2,781.6
481130076.052	\$68,024	1,022	3,717.1
481130076.011	\$115,979	1,043	1,654.2
481130096.073	\$61,952	1,082	4,548.3
481130096.071	\$76,942	1,217	3,118.7

Transparency:  Overlay color:

[Back](#) [Export to Excel](#)

To save the Smart Map to as an image or to a PDF, click the **“PDF”** icon.

My Content Create Maps from Data Define Areas for Reports

Smart Map Search

2 Set your ranges.

Block Groups In Current Map

2014 Median Disposable Income \$34,953 \$149,595

2014 Total Population 297 4,943

2019 Population Density 0 37,268.4

Add more variables... Save Criteria...

Change variables View Results Table

5005 LBJ Freeway, Dallas, TX

More Maps

Garland TX 75040

Rowlett TX 75088

Highland Park TX 75005

University Park TX 75201

esri

PDF