Instruction for Downloading Data from the Census Data API:
Decennial Census Self-Response Rates (2020) for All Counties in Florida

Follow these steps for building an API call (or a URL) for pulling data from the Decennial Census Self-Response Rates (2020) for All Counties in Florida.

**Step 1:** Using Chrome web browser, go to the census.gov Developers Page at: [https://www.census.gov/developers/](https://www.census.gov/developers/).

**Step 2.** On the left side of the screen, click on “Available APIs”.

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**Step 1**

![Step 1 screenshot](image1.png)

**Step 2**

![Step 2 screenshot](image2.png)
Step 3: Scroll down the page and click on Decennial Census Self-Response Rates (2020, 2010).

Step 4. Scroll down until you see “Decennial Self-Response Rates 2010.” Click on api.census.gov/data/2020/dec/responserate.html

Step 5. Click on "examples."
Step 6. Under state county. Copy/paste the URL into Firefox or Chrome if you are not already using these web browsers.

https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&in=state:*&key=YOUR_KEY GOES HERE

We are going to use this URL to build an API call for decennial census self-response rates (2020) for all counties in Florida.

Step 7. There are three parts of the URL that you will need to change:

a) First, add the geographic area name, NAME, to the URL.
At the (get=) portion of the URL add “NAME,” Adding NAME will give us the labels associated with the geographies instead of only the geographic code.

https://api.census.gov/data/2020/dec/responserate?get=NAME,DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&in=state:*&key=YOUR_KEY GOES HERE

b) Since we want to build a URL for the all counties in Florida, change the (=state:*) to (=state:12).

https://api.census.gov/data/2020/dec/responserate?get=NAME,DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&in=state:12&key=YOUR_KEY GOES HERE

c) Last, delete the portion of the URL, &key=YOUR_KEY GOES HERE.

https://api.census.gov/data/2020/dec/responserate?get=NAME,DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&in=state:12

Step 8: After making these adjustments to the URL, the final query is:
https://api.census.gov/data/2020/dec/responserate?get=NAME,DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&in=state:12

Hit the Enter key to pull the results. The results are in json format. Below are the first few lines.

```json
[...
{...
"NAME": "Florida",
"DRRALL": "$",
"CRRINT": "$",
"RESP_DATE": "2020-10-01",
"CRRALL": "$",
"GEO_ID": "12",
"DRRINT": "0.98",
...}
...]
```
Step 9: Copy all of these results into MS Excel:
   a) Press Ctrl-A to select all contents on the page
   b) Press Ctrl-C to copy
   c) Paste into the first cell of MS Excel (Ctrl-V)
**Step 10:** Next, we need to format the results in Excel by removing the comma between County and Florida.

a) Highlight Column A in Excel.

b) Press Ctrl-F and click the Replace Tab
c) Enter the following:
   a. Find what: County,
   b. Replace: County

![Find and Replace dialog box](image)


d) Click Replace All.

![Find and Replace dialog box](image)

e) Once all replacements have been made, close out the Find and Replace box.
Step 11: Now convert the text to columns.

a) Highlight column A again.

b) Click Data -> Click Text to Columns -> Select Delimited -> Click Next.

c) Uncheck Tab and Check Comma -> Click Next -> Click Finish.

Now, we have our table, but we need to clean up the quotation marks and brackets.
**Step 12**: To remove the quotation marks and brackets:

**Quotation Marks**

a) Press Ctrl + F and click the Replace tab.

b) Enter the following:
   - Find what: “
   - Replace: *(leave this blank)*

c) Click Replace All

**Left Brackets**

a) Press Ctrl + F and click the Replace tab.

b) Enter the following:
   - Find what: [
   - Replace: *(leave this blank)*

c) Click Replace All
Right Brackets

a) Press Ctrl-F and Click the Replace Tab
b) Enter the following
   - Find what: ]
   - Replace: (*leave this blank*)

c) Click Replace All

Now, we have our table for all counties in Florida.

<table>
<thead>
<tr>
<th>NAME</th>
<th>DRRALL</th>
<th>CRRINT</th>
<th>RESP_DATE</th>
<th>CRRALL</th>
<th>GEO_ID</th>
<th>DRRINT</th>
<th>state</th>
<th>county</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alachua County Florida</td>
<td>2.5</td>
<td>16.5</td>
<td>3/22/2020</td>
<td>17.6</td>
<td>05000000US12001</td>
<td>2.2</td>
<td>12</td>
<td>1</td>
</tr>
<tr>
<td>Baker County Florida</td>
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<td>7.2</td>
<td>3/22/2020</td>
<td>22.1</td>
<td>05000000US12003</td>
<td>0.7</td>
<td>12</td>
<td>3</td>
</tr>
<tr>
<td>Bay County Florida</td>
<td>2.1</td>
<td>9.7</td>
<td>3/22/2020</td>
<td>11.3</td>
<td>05000000US12005</td>
<td>1.8</td>
<td>12</td>
<td>5</td>
</tr>
<tr>
<td>Bradford County Florida</td>
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<td>6.4</td>
<td>3/22/2020</td>
<td>21.6</td>
<td>05000000US12007</td>
<td>0.6</td>
<td>12</td>
<td>7</td>
</tr>
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<td>3/22/2020</td>
<td>18.0</td>
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<td>9</td>
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<tr>
<td>Broward County Florida</td>
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<td>15</td>
<td>3/22/2020</td>
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<td>11</td>
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<td>Calhoun County Florida</td>
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<td>4.5</td>
<td>3/22/2020</td>
<td>16.8</td>
<td>05000000US12013</td>
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<td>13</td>
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<td>18.8</td>
<td>3/22/2020</td>
<td>26.1</td>
<td>05000000US12015</td>
<td>1.4</td>
<td>12</td>
<td>15</td>
</tr>
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<td>14</td>
<td>3/22/2020</td>
<td>28.6</td>
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<td>1.4</td>
<td>12</td>
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<td>Flagler County Florida</td>
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<td>3/22/2020</td>
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<td>05000000US12037</td>
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</tr>
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<td>Gadsden County Florida</td>
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<td>3/22/2020</td>
<td>16.4</td>
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</tbody>
</table>

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