* **Study Factor: County Population**
  + **Source:** USDA 2013 Rural-urban Continuum Codes
  + **Website:** <https://www.ers.usda.gov/data-products/rural-urban-continuum-codes/>
  + **File:** ruralurbancodes2013.csv
  + **Description:** County populations and groupings based on population in 1-9 ranking metro to urban.
  + **Columns:**

|  |  |
| --- | --- |
| **Column** | **Description** |
| FIPS | State-County FIPS Code |
| State | State Abbreviation |
| County\_Name | County name |
| Population\_2010 | Total population 2010  (From 2010 Census of Population Summary File 1) |
| RUCC\_2013 | Rural-urban Continuum Codes, 2013 |
| Description | Description of code |

* + **Note/ Discrepancies:** In Virginia, nonmetro independent cities were combined with their counties of origin when computing the Rural-urban continuum Codes. These areas will have >1 FIPS code. All other sources must be manipulated to match and geo visualizations must account for multi FIPS. Refer to documentation for specific FIPS combinations.
* **Study Factor Cases & Deaths by County and Date**
  + **Source:** New York Times Covid-19 Data
  + **Website:** <https://github.com/nytimes/covid-19-data>
  + **File:** us-counties.csv
  + **Description:**
  + **Columns:**

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| **Column** | **Description** |
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* + **Notes:** In some cases, the geographies where cases are reported do not map to standard county boundaries. See the list of [geographic exceptions](https://github.com/nytimes/covid-19-data#geographic-exceptions) for more detail on these.

In some instances, we report data from multiple counties or other non-county geographies as a single county. For instance, we report a single value for New York City, comprising the cases for New York, Kings, Queens, Bronx and Richmond Counties. In these instances the FIPS code field will be empty. (We may assign FIPS codes to these geographies in the future.) See the list of [geographic exceptions](https://github.com/nytimes/covid-19-data#geographic-exceptions).

Cities like St. Louis and Baltimore that are administered separately from an adjacent county of the same name are counted separately.

**“Unknown” Counties:** Many state health departments choose to report cases separately when the patient’s county of residence is unknown or pending determination. In these instances, we record the county name as “Unknown.” As more information about these cases becomes available, the cumulative number of cases in “Unknown” counties may fluctuate.

Sometimes, cases are first reported in one county and then moved to another county. As a result, the cumulative number of cases may change for a given county.

* + **License/ Attribution:**

If you use it in an online presentation, we would appreciate it if you would link to our U.S. tracking page at <https://www.nytimes.com/interactive/2020/us/coronavirus-us-cases.html>.

If you use this data, please let us know at [covid-data@nytimes.com](mailto:covid-data@nytimes.com).

See our [LICENSE](https://github.com/nytimes/covid-19-data/blob/master/LICENSE) for the full terms of use for this data.

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* **Study Factor: College Cases by County**
  + **Source:** New York Times Covid-19 Data
  + **Website:**  <https://github.com/nytimes/covid-19-data/blob/master/colleges/colleges.csv>
  + **File:** colleges.csv
  + **Description:**
  + **Columns:**

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| **Column** | **Description** |
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* + **Notes:**
* **Study Factor: Mask Usage**
  + **Source:** New York Times Covid-19 Data
  + **Website:**  <https://github.com/nytimes/covid-19-data/blob/master/mask-use/mask-use-by-county.csv>
  + **File:** mask-use-by-county.csv
  + **Description:** Survey compiled by the New York Times to estimate mask usage by county
  + **Columns:**

|  |  |
| --- | --- |
| **Column** | **Description** |
| COUNTYFP | State-County FIPS Code |
| NEVER | The estimated share of people in this county who would say **never** in response to the question “How often do you wear a mask in public when you expect to be within six feet of another person?” |
| RARELY | The estimated share of people in this county who would say **rarely** |
| SOMETIMES | The estimated share of people in this county who would say **sometimes** |
| FREQUENTLY | The estimated share of people in this county who would say f**requently** |
| ALWAYS | The estimated share of people in this county who would say **always** |

* + **Notes:** To transform raw survey responses into county-level estimates, the survey data was weighted by age and gender, and survey respondents’ locations were approximated from their ZIP codes. Then estimates of mask-wearing were made for each census tract by taking a weighted average of the 200 nearest responses, with closer responses getting more weight in the average. These tract-level estimates were then rolled up to the county level according to each tract’s total population.

By rolling the estimates up to counties, it reduces a lot of the random noise that is seen at the tract level. In addition, the shapes in the map are constructed from census tracts that have been merged — this helps in displaying a detailed map, but is less useful than county-level in analyzing the data

* + **License & Attribution:** This data is licensed under the same terms as our Coronavirus Data in the United States data. In general, we are making this data publicly available for broad, noncommercial public use including by medical and public health researchers, policymakers, analysts and local news media.

If you use this data, you must attribute it to “The New York Times and Dynata” in any publication. If you would like a more expanded description of the data, you could say “Estimates from The New York Times, based on roughly 250,000 interviews conducted by Dynata from July 2 to July 14.”

If you use it in an online presentation, we would appreciate it if you would link to our graphic discussing these results <https://www.nytimes.com/interactive/2020/07/17/upshot/coronavirus-face-mask-map.html>.

If you use this data, please let us know at [covid-data@nytimes.com](mailto:covid-data@nytimes.com).

See our [LICENSE](https://github.com/nytimes/covid-19-data/blob/master/LICENSE) for the full terms of use for this data.

* **Study Factor: Mobility**
  + **Source:** Google U.S. Mobility
  + **Website:**
  + **File:** mask-use-by-county.csv
  + **Description:**
  + **Columns:**
  + **Notes:**
* **Study Factor: Poverty**
  + **Source:** U.S. Census Bureau
  + **Website:** <https://www.census.gov/data/datasets/2018/demo/saipe/2018-state-and-county.html>
  + **File:** est18all(1).csv
  + **Description:**
  + **Columns:**

|  |  |
| --- | --- |
| **Column** | **Description** |
| State FIPS Code | State FIPS Code |
| County FIPS Code | County FIPS Code |
| Postal Code | Zip Code |
| Name | County Name |
| Poverty Est. All Ages |  |
| 90% CI Lower Bound |  |
| 90% CI Upper Bound |  |
| Poverty Percent, All Ages |  |
| 90% CI Lower Bound |  |
| 90% CI Upper Bound |  |
| Poverty Estimate, Age 0-17 |  |
| 90% CI Lower Bound |  |
| 90% CI Upper Bound |  |
| Poverty Percent, Age 0-17 |  |
| 90% CI Lower Bound |  |
| 90% CI Upper Bound |  |
| Poverty Estimate, Age 5-17 in Families |  |
| 90% CI Lower Bound |  |
| 90% CI Upper Bound |  |
| Poverty Percent, Age 5-17 in Families |  |
| 90% CI Lower Bound |  |
| 90% CI Upper Bound |  |
| Median Household Income |  |
| 90% CI Lower Bound |  |
| 90% CI Upper Bound |  |
| Poverty Estimate, Age 0-4 |  |
| 90% CI Lower Bound |  |
| 90% CI Upper Bound |  |
| Poverty Percent, Age 0-4 |  |
| 90% CI Lower Bound |  |
| 90% CI Upper Bound |  |

* + **Notes:**
* **Study Factor: Population Age Distribution**
  + **Source:** U.S. Census Bureau
  + **Website:** <https://www.census.gov/acs/www/data/data-tables-and-tools/>
  + **File:** ACSST1Y2019.S0101\_data\_with\_overlays\_2020-10-02T091901.csv
  + **Description:**
  + **Columns:**

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* + **Notes:**
* **Study Factor: Population Age Distribution**
  + **Source:** U.S. Census Bureau
  + **Website:** <https://www.census.gov/acs/www/data/data-tables-and-tools/>
  + **File:** ACSST1Y2019.S0101\_data\_with\_overlays\_2020-10-02T091901.csv
  + **Description:**
  + **Columns:**

|  |  |
| --- | --- |
| **Column** | **Description** |
| id |  |
| Geographic Area Name | County Name, State Name |
| Estimate!!Total: |  |
| Margin of Error!!Total: |  |
| Estimate!!Total:!!White alone |  |
| Margin of Error!!Total:!!White alone |  |
| Estimate!!Total:!!Black or African American alone |  |
| Margin of Error!!Total:!!Black or African American alone |  |
| Estimate!!Total:!!American Indian and Alaska Native alone |  |
| Margin of Error!!Total:!!American Indian and Alaska Native alone |  |
| Estimate!!Total:!!Asian alone |  |
| Margin of Error!!Total:!!Asian alone |  |
| Estimate!!Total:!!Native Hawaiian and Other Pacific Islander alone |  |
| Margin of Error!!Total:!!Native Hawaiian and Other Pacific Islander alone |  |
| Estimate!!Total:!!Some other race alone |  |
| Margin of Error!!Total:!!Some other race alone |  |
| Estimate!!Total:!!Two or more races: |  |
| Margin of Error!!Total:!!Two or more races: |  |
| Estimate!!Total:!!Two or more races:!!Two races including Some other race |  |
| Margin of Error!!Total:!!Two or more races:!!Two races including Some other race |  |
| Estimate!!Total:!!Two or more races:!!Two races excluding Some other race, and three or more races |  |
| Margin of Error!!Total:!!Two or more races:!!Two races excluding Some other race, and three or more races |  |
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* + **Notes:**
* **Study Factor: Health Insurance**
  + **Source:** U.S. Census Bureau
  + **Website:** <https://www.census.gov/acs/www/data/data-tables-and-tools/>
  + **File:** ACSST1Y2019.S0101\_data\_with\_overlays\_2020-10-02T091901.csv
  + **Description:**
  + **Columns:**

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| --- | --- |
| **Column** | **Description** |
| id |  |
| Geographic Area Name | County Name, State Name |
| Estimate!!Total: |  |
| Margin of Error!!Total: |  |
| Estimate!!Total:!!White alone |  |
| Margin of Error!!Total:!!White alone |  |
| Estimate!!Total:!!Black or African American alone |  |
| Margin of Error!!Total:!!Black or African American alone |  |
| Estimate!!Total:!!American Indian and Alaska Native alone |  |
| Margin of Error!!Total:!!American Indian and Alaska Native alone |  |
| Estimate!!Total:!!Asian alone |  |
| Margin of Error!!Total:!!Asian alone |  |
| Estimate!!Total:!!Native Hawaiian and Other Pacific Islander alone |  |
| Margin of Error!!Total:!!Native Hawaiian and Other Pacific Islander alone |  |
| Estimate!!Total:!!Some other race alone |  |
| Margin of Error!!Total:!!Some other race alone |  |
| Estimate!!Total:!!Two or more races: |  |
| Margin of Error!!Total:!!Two or more races: |  |
| Estimate!!Total:!!Two or more races:!!Two races including Some other race |  |
| Margin of Error!!Total:!!Two or more races:!!Two races including Some other race |  |
| Estimate!!Total:!!Two or more races:!!Two races excluding Some other race, and three or more races |  |
| Margin of Error!!Total:!!Two or more races:!!Two races excluding Some other race, and three or more races |  |
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* + **Notes:**