Readme file for the 2011-2015 census tract-level Environmental Quality Index (EQI)

Tract\_EQI\_Data\_Documentation\_2006\_2010\_and\_2011\_2015.pdf

* Data documentation for the census tract Environmental Quality Index 2006-2010 & 2011-2015

Tract\_EQI\_Metadata\_2011\_2015.xlsx

* Contains the data inventory for air, water, land, built and sociodemographic domains
* Includes data source names and links to data sources.
* Includes information for composite variables.

Tract\_EQI\_Scores\_VC\_2011\_2015.csv/ Tract\_EQI\_Scores\_VC\_2011\_2015.xlsx

* Contains a valence-corrected PCA output for the Overall EQI and RUCA stratified (1-5) for each census tract.

Tract\_EQI\_PCA\_Variables\_Transformed\_and\_Nontransformed\_2011\_2015.csv/

Tract\_EQI\_PCA\_Variables\_Transformed\_and\_Nontransformed\_2011\_2015.xlsx

* Contains all non-transformed and transformed variables from air, water, land, built and sociodemographic domains
* Contains state-, county-, and tract- level FIPS and RUCA categories
* Contains valence-corrected PCA output for the Overall EQI and RUCA stratified (1-5) for each census tract.

Tract\_EQI\_Data\_Dictionary\_2011\_2015.xlsx

* List of all variables with domain for EQI\_PCA\_Variables\_Transformed\_and\_Nontransformed\_2011\_2015.csv, variable descriptions, units, standardized (Y/N), log-transformed (Y/N), and data source for both transformed and non-transformed datasets.
* Descriptions and data sources for state-, county-, and tract-level FIPs code and number, tract population, tract population density, tract area, and RUCA categories.
* Descriptions and valence correction (Y/N) information for the Overall EQI and RUCA stratified (1-5) variables.

EQI1115\_scores\_vc\_2010tracts.xml

* Contains metadata for transformed and non-transformed variables used in the air, water, land, built and sociodemographic domains
* Contains metadata for the environmental quality index for 2011\_2015 valence corrected
* Contains description and information on overall EQI and RUCA stratified (1-5) values.
* Contains description and information on transformed and non-transformed variables representing the Air, Water, Land, Built, and Sociodemographic Domains/environment used for construction of the Air, Water, Land, Built, and Sociodemographic Domains index as well as the overall Environmental Quality Index. Refer to the original data source for data limitations. Original data sources can be found within documentation.
* 2010tracts refers to the year of the census tract shapefile used – 2010 TIGER/Line

**Useful Code**

Sample code for adding leading zero to state FIPS

**Sample SAS code:**

DATA eqi;

SET eqi;

LENGTH FIPS $5;

IF stfips <10000 THEN FIPS = '0'||STRIP(stfips);

ELSE FIPS=STRIP(stfips);

DROP stfips;

RUN;

**Sample R code:**

eqi$fips = substr ( as.numeric(eqi$stfips) + 100000, 2,7)