Readme file for the 2006-2010 Environmental Quality Index (EQI)

EQI2006-2010\_Report\_External Review.pdf

* Technical report for update of the Environmental Quality Index 2006-2010

2006\_2010\_EQI\_2Jan2018\_VC.csv

* Contains PCA output for 5 domains and EQI, non-stratified
* Contains PCA output for 5 domains and EQI, RUCC stratified (1-4)
* Output for 5 domains and EQI, non-stratified and RUCC stratified (1-4) as continuous variables and categorical (tertile, quartile, quintile categories)

PCA\_Input\_Variables\_Non\_Transformed.csv

* Contains all variables from air, water, land, built and sociodemographic domains
* Contains county level FIPS and RUCC categories
* In the non-transformed file, no transformations have been applied to variables
* There are no missing values

PCA\_Input\_Variables.csv

* Contains all variables from air, water, land, built and sociodemographic domains
* Contains county level FIPS and RUCC categories
* Includes transformed variables
* There are no missing values

Data Dictionary Variables EQI 2006\_2010.xlsx

* List of all variables with domain for two datasets: PCA\_Input\_Variables\_Non\_Transformed.csv and PCA\_Input\_Variables.csv, actual name/definition, and variable names for both transformed and non-transformed datasets

Data\_Dictionary\_2006\_2010\_EQI\_VC.csv

* List of all variables, name/definition for the dataset 2006\_2010\_EQI\_2Jan2018\_VC.csv

EQI\_2006\_2010\_Metadata.xlsx

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

EnvironmentalQualityIndex\_2006\_2010\_VC\_NonTransformed.xml

* Contains metadata for non-transformed variables used in the air, water, land, built and sociodemographic domains
* Contains description and information on 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 as part of the USEPA's 2006-2010 EQI project. Refer to the original data source for data limitations. Original data sources can be found within documentation.

EnvironmentalQualityIndex\_2006\_2010\_VC\_Transformed.xml

* Contains metadata for transformed variables used in the air, water, land, built and sociodemographic domains
* Contains description and information on 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 as part of the USEPA's 2006-2010 EQI project. Refer to the original data source for data limitations. Original data sources can be found within documentation.

EnvironmentalQualityIndex\_2006\_2010\_VC.xml

* Contains metadata for the environmental quality index for 2006-2010 valence corrected
* Contains description and information on overall EQI values, as well as domain-specific index values. Limitations for each data source can be found at source data websites, included in the document.

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)