ReadMe

AnalysisFile.CSV contains 25 Variables (Columns)

Column Letter	Variable Name	Additional Information
A	fips	Federal Information Processing - Std
B	C50	Cluster Number of a US County
C	LRC50	Local Rank Correlation for US County
D	County	County Name (character string)
E	State	State Abbreviation (2 characters)
F	AACRmort	Age Adjusted Circ/Resp Mortality
G	pmTOT	Total Particulate Matter / 2.5 microns
H	pmOA	Organic Aerosol Particulate Matter
I	pmDUST	Dust Aerosol Particulate Matter
J	pmSO4	Sulfate Particulate Matter
K	pmNH4NO3	Ammonium Nitrate Particulate Matter
L	pmSOOT	Soot Particulate Matter
M	pmSEAspry	Sea Spray Particulate Matter
N	pmOC	Organic Carbon Particulate Matter
O	pmPOA	Total Primary Organic Aerosols
P	pmSOA	Total Secondary Organic Aerosols
Q	Avoc	Anthropogenic Volatile Organic Comp
R	Bvoc	Biogenic Volatile Organic Compounds
S	PREMdeath	Premature Death Index (before Age 75)
T	ASmok	Adult Smoking Percentage
U	ChildPOV	Children Living in Poverty Index
V	IncomIEQ	Income Inequality Index
W	Population	County Population Total
X	NO2	County Nitrogen Dioxide Level
Y	O3	County Ozone Level

NOTE: None of the 2,793 Rows of AnalysisFile.CSV contain a "missing value."

Literature References

1. Pye et al, 2021

H.O.T. Pye, C.K. Ward-Caviness, B.N. Murphy, K.W. Appel, and K.M. Seltzer. Secondary organic aerosol association with cardiorespiratory disease mortality in the united states. *Nature Communications*, 12, 2021. doi: 10.1038/s41467-021-27484-1.

2. Obenchain and Young EPA Particulate Matter Data - Analyses using Local Control Strategy arxiv.2209.05461

3. Code can be found at https://cran.r-project.org/web/packages/LocalControlStrategy/index.html