



Technical Documentation of the Source Assessment Mapping Interface for Environmental Health Data Visualizations Interface or SAMIEHD-Vis

June 2025

We have provided descriptions and educational links to learn more about the data included in SAMIEHD-Vis and where it was obtained as of October 2024.

Data Dictionary

Variable	Description	Source
PM2.5 Annual Average (Monitored & Modeled)	Annual Average Ambient Concentrations of Particulate Matter 2.5 μm or Smaller in μg per Cubic Meter, Based on Seasonal Averages and Daily Measurement	National Environmental Public Health Tracking Network
Ozone Days Above Standard (Monitored & Modeled) – CDC	Number of Days with Maximum 8-Hour Average Ozone Concentration Over the National Ambient Air Quality Standard (Monitored and Modeled Data)	National Environmental Public Health Tracking Network
Asthma – emergency department visits, age adjusted rate	Age Adjusted Rate of Emergency Department Visits for Asthma Per 10,000 Population	National Environmental Public Health Tracking Network
Asthma – emergency department visits for asthma, rate	Crude Rate of Emergency Department Visits for Asthma Per 10,000 Population	National Environmental Public Health Tracking Network
Asthma – emergency department visits, count	Number of Emergency Department Visits for Asthma Per 10,000 Population	National Environmental Public Health Tracking Network
Asthma – hospitalizations, age-adjusted rate	Age Adjusted Rate of Hospitalizations for Asthma Per 10,000 Population	National Environmental Public Health Tracking Network

Asthma – hospitalizations for asthma, rate	Crude Rate of Hospitalizations for Asthma Per 10,000 Population	National Environmental Public Health Tracking Network
Asthma – hospitalizations, count	Number of Hospitalizations for Asthma Per 10,000 Population	National Environmental Public Health Tracking Network
COPD (Chronic Obstructive Pulmonary Disease) – COPD mortality rate, age-adjusted	Age Adjusted Death Rate from COPD Among Persons 25 and Over Per 100,000 Population	National Environmental Public Health Tracking Network
COPD (Chronic Obstructive Pulmonary Disease) – COPD mortality rate	Crude Death Rate from COPD Among Persons 25 and Over Per 100,000 Population	National Environmental Public Health Tracking Network
COPD (Chronic Obstructive Pulmonary Disease) – COPD mortality count	Number of Deaths from COPD Among Persons 25 and Over	National Environmental Public Health Tracking Network
Heart Disease – Heart attack mortality rate, age-adjusted	Age Adjusted Rate of Death from Heart Attack Among Persons 35 and Older per 100,000 Population	National Environmental Public Health Tracking Network
Heart Disease – Heart attack mortality rate	Crude Rate of Death from Heart Attack Among Persons 35 and Older per 100,000 Population	National Environmental Public Health Tracking Network
Heart Disease – Heart attack mortality count	Number of Deaths from Heart Attack Among Persons 35 and Older	National Environmental Public Health Tracking Network
Heart Disease – Ischemic Heart Disease mortality rate, age-adjusted	Age Adjusted Rate of Death from Ischemic Heart Disease Among Persons 35 and Older per 100,000 Population	National Environmental Public Health Tracking Network
Heart Disease – Ischemic Heart Disease mortality rate	Crude Rate of Death from Ischemic Heart Disease Among Persons 35 and Older per 100,000 Population	National Environmental Public Health Tracking Network
Heart Disease – Ischemic Heart Disease mortality count	Number of Deaths from Ischemic Heart Disease Among Persons 35 and Older	National Environmental Public Health Tracking Network
Low Birthweight – Avg Annual # <1500g	Average Annual Number of Very Low Birthweight (<1500g) Live Singleton Births Over 5 Years	National Environmental Public Health Tracking Network
Low Birthweight – Avg Annual % <1500g	Average Annual Percent of Very Low Birthweight (<1500g) Live Singleton Births Over 5 Years	National Environmental Public Health Tracking Network

Low Birthweight - # <2500g	Number of Low Birthweight (<2500g) Live Singleton Births	National Environmental Public Health Tracking Network
Low Birthweight - % <2500g	Percent of Low Birthweight (<2500g) Live Singleton Births	National Environmental Public Health Tracking Network
Low Birthweight - # <2500g (Males)	Number of Low Birthweight (<2500g) Live Singleton Male Births	National Environmental Public Health Tracking Network
Low Birthweight - # <2500g (Females)	Number of Low Birthweight (<2500g) Live Singleton Female Births	National Environmental Public Health Tracking Network
Low Birthweight - % <2500g (Males)	Percent of Low Birthweight (<2500g) Live Singleton Male Births	National Environmental Public Health Tracking Network
Low Birthweight - % <2500g (Females)	Percent of Low Birthweight (<2500g) Live Singleton Female Births	National Environmental Public Health Tracking Network
# Houses Built Before 1950	Number of Homes Built Before 1950 (As Measured in the 2000 Census)	National Environmental Public Health Tracking Network
# Houses Built Between 1950-1979	Number of Homes Built Between 1950 and 1979 (As Measured in the 2000 Census)	National Environmental Public Health Tracking Network
% Houses Built Before 1950	Percent of Homes Built Before 1950 (As Measured in the 2000 Census)	National Environmental Public Health Tracking Network
% Houses Built Between 1950-1979	Percent of Homes Built Between 1950 and 1979 (As Measured in the 2000 Census)	National Environmental Public Health Tracking Network
Childhood Lead Poisoning - # of Children Tested	Number of Children Tested for Blood Lead Levels	National Environmental Public Health Tracking Network
Childhood Lead Poisoning - # of Children Tested, 0-3	Number of Children Ages 0-3 Tested for Blood Lead Levels	National Environmental Public Health Tracking Network
Childhood Lead Poisoning - # of Children Tested, 3-6	Number of Children Ages 3-6 Tested for Blood Lead Levels	National Environmental Public Health Tracking Network
Childhood Lead Poisoning - # of Children w/ Levels between 5-10 ug/L	Number of Children Tested with Blood Lead Levels Between 5 and Less Than 10 µg/dL	National Environmental Public Health Tracking Network
Childhood Lead Poisoning - # of Children w/ Levels between 5-10 ug/L,	Number of Children Ages 0-3 Tested with Blood Lead Levels Between 5 and Less Than 10 µg/dL	National Environmental Public Health Tracking Network

Ages 0-3		
Childhood Lead Poisoning - # of Children w/ Levels between 5-10 ug/L, Ages 3-6	Number of Children Ages 3-6 Tested with Blood Lead Levels Between 5 and Less Than 10 µg/dL	National Environmental Public Health Tracking Network
Childhood Lead Poisoning - # of Children w/ Level >10 ug/L	Number of Children Tested with Confirmed Blood Lead Levels of 10 µg/dL or Greater	National Environmental Public Health Tracking Network
Childhood Lead Poisoning - # of Children w/ Level >10 ug/L, Ages 0-3	Number of Children Ages 0-3 Tested with Confirmed Blood Lead Levels of µg/dL or Greater	National Environmental Public Health Tracking Network
Childhood Lead Poisoning - # of Children w/ Level >10 ug/L, Ages 3-6	Number of Children Ages 3-6 Tested with Confirmed Blood Lead Levels of µg/dL or Greater	National Environmental Public Health Tracking Network
Childhood Lead Poisoning - % of Children Tested	Percent of Children Tested for Blood Lead Levels	National Environmental Public Health Tracking Network
Childhood Lead Poisoning - % of Children Tested, 0-3	Percent of Children Ages 0-3 Tested for Blood Lead Levels	National Environmental Public Health Tracking Network
Childhood Lead Poisoning - % of Children Tested, 3-6	Percent of Children Ages 3-6 Tested for Blood Lead Levels	National Environmental Public Health Tracking Network
Childhood Lead Poisoning - % of Children Tested between 5-10 ug/L	Annual Blood Lead Levels Percent of Children Tested with Blood Levels Between 5 and Less Than 10 µg/dL	National Environmental Public Health Tracking Network
Childhood Lead Poisoning - % of Children Tested between 5-10 ug/L, Ages 0-3	Annual Blood Lead Levels Percent of Children Ages 0-3 Tested with Blood Levels Between 5 and Less Than 10 µg/dL	National Environmental Public Health Tracking Network
Childhood Lead Poisoning - % of Children Tested between 5-10 ug/L, Ages 3-6	Annual Blood Lead Levels Percent of Children Ages 3-6 Tested with Blood Levels Between 5 and Less Than 10 µg/dL	National Environmental Public Health Tracking Network
Childhood Lead Poisoning - % of Children w/ Level	Annual Blood Lead Levels Percent of Children Tested with Blood Levels of 10 µg/dL or Greater	National Environmental Public Health Tracking Network

>10ug/L		
Childhood Lead Poisoning - % of Children w/ Level >10ug/L, Ages 0-3	Annual Blood Lead Levels Percent of Children Ages 0-3 Tested with Blood Levels of 10 µg/dL or Greater	National Environmental Public Health Tracking Network
Childhood Lead Poisoning - % of Children w/ Level >10ug/L, Ages 3-6	Annual Blood Lead Levels Percent of Children Ages 3-6 Tested with Blood Levels of 10 µg/dL or Greater	National Environmental Public Health Tracking Network
Childhood Lead Poisoning – Arkansas 2014-2018 BLL Case Counts	Arkansas Documented Cases of Blood Lead Concentration of 5 µg/dL or Greater in Children Under 18 Years of Age by Region and County (2014-2018), Revised 7/17/2019. NOTE: Cases are counted based upon the county of residency of the patient.	State and Tribal Partners
Federal Wildland Fire Occurrence	Incidences of Federal Wildland Fire Activity 2000-2016 All Agencies	FEMA NFIRS: National Fire Incident Reporting System
Economic Demographics - % Low Income	Demographic Indicators Percent of population in households with a household income equal to or less than twice the federal “poverty level”	US Census (ACS 2014-2018)
Economic Demographics - % Less than High School	Demographic Indicators Percent Population with Less Than High School Education	US Census (ACS 2014-2018)
Economic Demographics - % Under Age 5	Demographic Indicators Percent Population Under Age 5	US Census (ACS 2014-2018)
Economic Demographics - % Over Age 64	Demographic Indicators Percent Population Over Age 64	US Census (ACS 2014-2018)
Oklahoma Radon Testing	Oklahoma 1992-2018 Average Radon Level by County (pCi/L)	State and Tribal Partners
Radon Tests from Labs (CDC)	Radon Tests from Labs Maximum Pre-Mitigation Radon Level in Tested Buildings (pCi/L)	National Environmental Public Health Tracking Network
EPA Radon Zones	Predicted Indoor Radon – Zone 1: > 4 pCi/L; Zone 2: 2-4 pCi/L; Zone 3: <2 pCi/L	EPA Map of Radon Zones
Cherokee Nation Lead Testing - % of Samples	Percent of Sampled Homes Testing Positive for Lead Inside 2011-	State and Tribal Partners

with Lead Inside 2011-2020	2020 Combined	
Cherokee Nation Lead Testing - % of Samples with Lead Outside 2011-2020	Percent of Sampled Homes Testing Positive for Lead Outside 2011-2020 Combined	State and Tribal Partners
Cherokee Nation Lead Testing - % of Samples with Lead (Combined) 2011-2020	Percent of Sampled Homes Testing Positive for Lead (Combined) 2011-2020 Combined	State and Tribal Partners
Cherokee Nation Lead Testing - % of Samples with Lead Inside by Year	Percent of Sampled Homes Testing Positive for Lead Inside by Year	State and Tribal Partners
Cherokee Nation Lead Testing - % of Samples with Lead Outside by Year	Percent of Sampled Homes Testing Positive for Lead Outside by Year	State and Tribal Partners
Cherokee Nation Lead Testing - % of Samples with Lead (Combined) by Year	Percent of Sampled Homes Testing Positive for Lead (Combined) by Year	State and Tribal Partners
NAAQS Lead Design Values (2020)	National Ambient Air Quality Standards 2020 Lead Design Value ($\mu\text{g}/\text{m}^3$)	EPA Air Quality Design Values
Educating the Public on Reducing Exposure to Lead-Based Paint Hazards - 2020	Region 6 Distributed 2020 Lead Based Paint Planners to State and Tribal Outreach Partners by Mail and Hand Deliveries Via an Outreach Circuit Rider	Contact EPA's Region 6 (South Central) Office
Land in Farms (2017)	Land in Farms as a Percentage of Total Area	US Census (ACS 2014-2018)
Total Land Area (2022)	Total Acres of Land (ACS 2014-2018)	US Census (ACS 2014-2018)
Total Population (2022)	US Census Population (ACS 2014-2018)	US Census (ACS 2014-2018)
Population Density (2022)	US Census Persons Per Acre (ACS 2014-2018)	US Census (ACS 2014-2018)
Airport Count	County of FAA Airport Facilities by County	Federal Aviation Administration
Airport Density	FAA Airport Facilities Per Square Mile	Federal Aviation Administration
Total EPA Contract	Total number of EPA Contract	System Award Management

Transactions	Transactions	(sam.gov)
Total Non-SB EPA Contract Transactions	Total number of Non-Small Business Transactions	System Award Management (sam.gov)
Total Small Business EPA Contract Transactions	Total number of Small Business Transactions	System Award Management (sam.gov)
Total Self-Cert. SDB Contract Transactions	Total number of Self-Certified Small Disadvantaged Business Transactions	System Award Management (sam.gov)
Total 8(a) Participant Contract Transactions	Total number of 8(a) Program Participant Transactions	System Award Management (sam.gov)
Total Econ. Disadv. WOSB Contract Transactions	Total number of Economically Disadvantaged Women-Owned Small Business Transactions	System Award Management (sam.gov)
Total Women-Owned Business Contract Transactions	Total number of Women-Owned Business Transactions	System Award Management (sam.gov)
Total Women-Owned Small Business Contract Transactions	Total number of Women-Owned Small Business Transactions	System Award Management (sam.gov)
Total HUBZone Contract Transactions	Total number of Historically Underutilized Business Zone (HUB-Zone) Transactions	System Award Management (sam.gov)
Total Service-Disabled Vet Contract Transactions	Total number of Service-Disabled Veteran-Owned Business Transactions	System Award Management (sam.gov)
Total Veteran-Owned Business Contract Transactions	Total number of Veteran-Owned Business Transactions	System Award Management (sam.gov)
Total Small Disadvantaged Business Contract Transactions	Total number of Small Disadvantaged Business Transactions	System Award Management (sam.gov)
Total SBA-Cert 8(a) Contract Transactions	Total number of SBA-Certified 8(a) Joint Venture Transactions	System Award Management (sam.gov)
% Non-SB EPA Contract \$	Percent Obligation Dollars Awarded to Non-Small Businesses	System Award Management (sam.gov)
% SB EPA Contract \$	Percent Obligation Dollars Awarded to Small Businesses	System Award Management (sam.gov)
% Self-Cert SDB Contract \$	Percent Obligation Dollars Awarded to Self-Certified Small Disadvantaged Businesses	System Award Management (sam.gov)
\$ 8(a) Participant	Percent Obligation Dollars	System Award Management

Contract \$	Awarded to 8(a) Program Participants	sam.gov
% Econ. Disadv. WOSB Contract \$	Percent Obligation Dollars Awarded to Economically Disadvantaged Women-Owned Small Businesses	System Award Management (sam.gov)
% Women-Owned Business Contract \$	Percent Obligation Dollars Awarded to Women-Owned Businesses	System Award Management (sam.gov)
% Women-Owned Small Business Contract \$	Percent Obligation Dollars Awarded to Women-Owned Small Businesses	System Award Management (sam.gov)
% HUBZone Contract \$	Percent Obligation Dollars Awarded to Historically Underutilized Business Zone (HUB-Zone) Firms	System Award Management (sam.gov)
% Service-Disabled Vet Contract \$	Percent Obligation Dollars Awarded to Service-Disabled Veteran-Owned Businesses	System Award Management (sam.gov)
% Veteran-Owned Business Contract \$	Percent Obligation Dollars Awarded to Veteran-Owned Businesses	System Award Management (sam.gov)
% Small Disadv. Business Contract \$	Percent Obligation Dollars Awarded to Small Disadvantaged Businesses	System Award Management (sam.gov)
% SBA-Cert 8(a) Joint Contract \$	Percent Obligation Dollars Awarded to SBA-Certified 8(a) Joint Ventures	System Award Management (sam.gov)
CDC Environmental Health – Combined Indices	Percent of Tracts in Top Tertile of All Combined Environmental Health Indices	CDC 2022
CDC Environmental Health – Combined Health Vulnerability Indices	Percent of Tracts in Top Tertile of Combined Health Vulnerability Indices	CDC 2022
CDC Environmental Health – Combined Social Vulnerability Indices	Percent of Tracts in Top Tertile of Combined Social Vulnerability Indices	CDC 2022
CDC Environmental Health – Asthma Occurrence	Percent of Tracts in Top Tertile of Asthma Occurrence	CDC 2022
CDC Environmental Health – Cancer	Percent of Tracts in Top Tertile of Cancer Occurrence	CDC 2022

Occurrence		
CDC Environmental Health – High Blood Pressure Occurrence	Percent of Tracts in Top Tertile of High Blood Pressure Occurrence	CDC 2022
CDC Environmental Health – Diabetes Occurrence	Percent of Tracts in Top Tertile of Diabetes Occurrence	CDC 2022
CDC Environmental Health – Poor Mental Health Occurrence	Percent of Tracts in Top Tertile of Percentage of Persons Reporting Poor Mental Health	CDC 2022
CDC Environmental Health – Poverty	Percent of Tracts in Top Tertile of Percentage of Persons Living Below 200% Poverty	CDC 2022
CDC Environmental Health – No HS Diploma	Percent of Tracts in Top Tertile of Percentage of Persons with No High School Diploma	CDC 2022
CDC Environmental Health – Unemployment	Percent of Tracts in Top Tertile of Percentage of Persons Unemployed	CDC 2022
CDC Environmental Health – Rental Housing	Percent of Tracts in Top Tertile of Percentage of Persons who Rent	CDC 2022
CDC Environmental Health – Housing Burdened Households	Percent of Tracts in Top Tertile of Percentage of Households that Make Less Than \$75000 Annually	CDC 2022
CDC Environmental Health – Uninsured	Percent of Tracts in Top Tertile of Percentage of Persons Uninsured	CDC 2022
CDC Environmental Health – No Internet	Percent of Tracts in Top Tertile of Percentage of Persons Without Internet	CDC 2022
CDC Environmental Health – Population >65	Percent of Tracts in Top Tertile of Percentage of Persons Over 65	CDC 2022
CDC Environmental Health – Population <17	Percent of Tracts in Top Tertile of Percentage of Persons Under 17	CDC 2022
CDC Environmental Health – Disabled	Percent of Tracts in Top Tertile of Percentage of Persons Disabled	CDC 2022
CDC Environmental Health – Limited English	Percent of Tracts in Top Tertile of Percentage of Persons who Speak Limited English	CDC 2022
CDC Environmental Health – Mobile Homes	Percent of Tracts in Top Tertile of Percentage of Persons who Live in Mobile Homes	CDC 2022

CDC Environmental Health – Group Quarters	Percent of Tracts in Top Tertile of Percentage of Persons who Live in Group Quarters	CDC 2022
CDC Environmental Health – Ozone	Percent of Tracts in Top Tertile of Number of Days Above Ozone Regulatory Standard (3-YR AVG)	CDC 2022
CDC Environmental Health – PM2.5	Percent of Tracts in Top Tertile of Number of Days Above Regulatory Standard for Particulate Matter 2.5 μm or smaller (3-YR AVG)	CDC 2022
CDC Environmental Health – Diesel PM	Percent of Tracts in Top Tertile of Ambient Concentrations of Diesel Particulate Matter	CDC 2022
CDC Environmental Health – Air Toxics Cancer Risk	Percent of Tracts in Top Tertile of Probability of Contracting Cancer Due to Air Toxics Exposure	CDC 2022
CDC Environmental Health – Proximity to NPL Sites	Percent of Tracts in Top Tertile of Proportion of Area within 1-Mi Buffer of EPA National Priority List Sites	CDC 2022
CDC Environmental Health – Proximity to TRI Sites	Percent of Tracts in Top Tertile of Proportion of Area within 1-Mi Buffer of EPA Toxic Release Inventory Sites	CDC 2022
CDC Environmental Health – Proximity to TSD Sites	Percent of Tracts in Top Tertile of Proportion of Area within 1-Mi Buffer of EPA Treatment, Storage, and Disposal Sites	CDC 2022
CDC Environmental Health – Proximity to Risk Management Plan Sites	Percent of Tracts in Top Tertile of Proportion of Area within 1-Mi Buffer of EPA Risk Management Plan Sites	CDC 2022
CDC Environmental Health – Proximity to Coal Mines	Percent of Tracts in Top Tertile of Proportion of Area within 1-Mi Buffer of Coal Mines	CDC 2022
CDC Environmental Health – Proximity to Lead Mines	Percent of Tracts in Top Tertile of Proportion of Area within 1-Mi Buffer of Lead Mines	CDC 2022
CDC Environmental Health – Proximity to Parks	Percent of Tracts in Top Tertile of Proportion of Area within 1-Mi Buffer of Green Space	CDC 2022
CDC Environmental Health – Housing Built before 1980	Percent of Tracts in Top Tertile of Percentage of Houses Built Before 1980	CDC 2022

CDC Environmental Health – Walkability Index	Percent of Tracts in Top Tertile of EPA National Walkability Index	CDC 2022
CDC Environmental Health – Proximity to Highways	Percent of Tracts in Top Tertile of Proportion of Area within 1-Mi Buffer of High-Volume Roads/Highways	CDC 2022
CDC Environmental Health – Proximity to Railroads	Percent of Tracts in Top Tertile of Proportion of Area within 1-Mi Buffer of Railroads	CDC 2022
CDC Environmental Health – Proximity to Airports	Percent of Tracts in Top Tertile of Proportion of Area within 1-Mi Buffer of Airports	CDC 2022
CDC Environmental Health – Impaired Waterways	Percent of Tracts in Top Tertile of Proportion of Area that Intersects an Impaired Waterway	CDC 2022
Greenhouse Gas Emissions – Carbon Dioxide	Annual Carbon Dioxide Emissions (Metric Tons of Carbon Dioxide)	EPA Environmental and Health Topics
Greenhouse Gas Emissions – Methane	Annual Methane Emissions (Metric Tons of Carbon Dioxide Equivalent Value)	EPA Environmental and Health Topics
Greenhouse Gas Emissions – Nitrous Oxide	Annual Nitrous Oxide Emissions (Metric Tons of Carbon Dioxide Equivalent Value)	EPA Environmental and Health Topics
Greenhouse Gas Emissions – Fluorinated Gases	Annual Fluorinated Gas Emissions (Metric Tons of Carbon Dioxide Equivalent Value)	EPA Environmental and Health Topics
Water Pollution – Enterococcus	Annual Median Enterococcus (MPN/100 mL)	EPA EDM: Estuary Data Mapper
Water Pollution – E. Coli	Annual Median E. Coli (MPN/100 mL)	EPA EDM: Estuary Data Mapper
Water Pollution – Precipitation	Historical Annual Average Precipitation	National Environmental Public Health Tracking Network
Water Pollution – Flooding	Vulnerability & Preparedness: Precipitation & Flooding Percent Area (Square Miles) within FEMA Designated Flood Hazard Area	National Environmental Public Health Tracking Network
Water Pollution – Total Dissolved Solids	Total Dissolved Solids Annual Median (mg/L)	EPA EDM: Estuary Data Mapper
Water Pollution – Turbidity	Annual Median Turbidity (NTU)	EPA EDM: Estuary Data Mapper
Water Pollution – Salinity	Annual Median Salinity (PSU)	EPA EDM: Estuary Data Mapper

Water Pollution – pH	Annual Median pH	EPA EDM: Estuary Data Mapper
Water Pollution – Dissolved Oxygen	Annual Median Dissolved Oxygen (mg/L)	EPA EDM: Estuary Data Mapper

Glossary of Terms

Qlik: The data analytics and visualization platform through which the SAMIEHD-Vis tool is run.

Widget: A simple interactive software application that can be embedded into a webpage. The widgets within SAMIEHD-Vis are listed below.

SAMIEHD-Vis Links and Widgets

For instructions on how to use these features, please open SAMIEHD-Vis and click “Instructions” at the top of the page.

Widget/Link	Description
Filter by State	Selects the state(s) in which to load data. American Samoa, Washington DC, Guam, the Northern Mariana Islands, Puerto Rico, and the US Virgin Islands are included.
Filter by Year	Selects the year for which to display data, ranging from 2000 to 2023. Not all variables have data for all years, and for some variables, the values are averaged over multiple years.
Available Years Graphs	These show the years for which the X and Y variables have available data. If a variable’s values are averaged together over multiple years, only one year will appear in the graph.
Loop Through Available Years	Displays the X and Y values for all years that they are available, but only if data is available for multiple years.
Variable X Dropdown	Selects an independent variable.
Variable Y Dropdown	Selects a response variable.
ESRI Maps	These interactive maps highlight counties based on their values for the X and Y Variable values. The X Variable is displayed on the left map, and the Y Variable is displayed on the right.
Scatter Plots	Plots a point for each county based on its value for the X and Y variables and allows the user to select specific data points for further analysis. More information on scatter plots is available here.
Data Table	Shows the X and Y value for each county numerically and allows the user to select specific data points for further analysis.
Scoring Regression Model Bar Chart (Ranking All Y Variables From 0-1 As	Ranks the variables that form the highest R-squared value with the selected X Variable using a scoring regression model. More information on scoring regression models in Qlik is available here.

They Relate to Selected Variable X)	
Correlation Coefficient	Shows the aggregated correlation coefficient between the X and Y variables as a percentage, with values close to 100% indicating a strong positive correlation, values close to 0% indicating no correlation, and values close to -100% indicating a strong negative correlation. More information on aggregated correlation coefficients in Qlik is available here.
Download Data as CSV	Opens a Comma Separated Values file of the selected and filtered data. Each county is shown as a row and each variable is shown as a column.
Instructions	For a guide explaining the features of SAMIEHD-Vis and how to use them, visit the app interface and click on Instructions tab at the top right.
Contact Us	This link directs the user to email senkayi.sala@epa.gov for any questions or feedback about the tool.