David Blumenstiel

App Location: <https://davidblumenstiel.shinyapps.io/Global_Fire_Stats_1997-2015/>

The Shiny R app I have created contains visualizations pertaining on the carbon content of various types of fires, the years in which they happened, which countries they occurred in, and the areas of land they were burned from 1997 to 2015. The data was published by the Center for International Earth Science Information Network at Columbia University in 2017, and is publicly available here: <https://sedac.ciesin.columbia.edu/data/set/sdei-global-fire-emissions-indicators-country-level-1997-2015>. There are six visualizations in total, including three graphs and three interactive (optionally animated) maps.

These visualizations are important for helping understand the geography (by country) and amount of carbon and land burned in fires from 1997 to 2015. They highlight both significant events and continuing trends in fires of different types (wildfires, agricultural waste burning, etc.). This app is a tool for exploring the impact and severity of fires in different regions, throughout the timeline. Different metrics such as carbon burned per capita, proportion of countries burned, and carbon released from different types of fires are included.

Several specific trends and events are highlighted in the captions of each figure, although there are likely many more to be found. Exploration is encouraged.

Data Source: Center for International Earth Science Information Network (CIESIN), Columbia University. 2017. Global Fire Emissions Indicators, Country-Level Tabular Data: 1997-2015. Palisades, NY: NASA Socioeconomic Data and Applications Center (SEDAC). https://doi.org/10.7927/H4V69GJ5. Accessed 05/01/2021