**Dataset:** “us_county_data.csv”

**Description:** This dataset was created by Prof. Maxwell for use in his courses. A variety of attributes have been summarized at the county-level. A total of 3,104 records are provided representing the majority of the counties in the contiguous United States. A few counties were excluded due to their small size.

**NAME:** County name

**STATE_NAME:** State name in which county occurs

**STATE_ABBR:** State abbreviation

**STATE_FIPS:** Federal Information Processing Standards code for state; unique identifier for state

**COUNTY_FIP:** Federal Information Processing Standards code for county

**FIPS:** State + County FIPS code; unique identifier for county

**POPULATION:** Estimated county population from United States Census American Community Survey (ACS)

**POP_SQMI:** Estimated county population (people per square mile)

**SQMI:** Area of county in square miles

**SUB_REGION:** subregion of the country in which the county occurs (levels = "E N Cen" "E S Cen" "Mid Atl" "Mtn" "N Eng" "Pacific" "S Atl" "W N Cen" "W S Cen")

"E N Cen" = East North Central

"E S Cen" = East South Central

"Mid Atl" = Mid-Atlantic

"Mtn" = Mountain

"N Eng" = New England

"Pacific" = Pacific

"S Atl" = South Atlantic

"W N Cen" = West North Central

"W S Cen" = West South Central

**med_income:** Median county household income from United States Census American Community Survey (ACS)

**households:** Number of households estimated by the United States Census American Community Survey (ACS)

**per_desk_lap:** percent of households with at least one desktop or laptop estimated by the United States Census American Community Survey (ACS)

**per_smartphone:** percent of households with at least one smartphone estimated by the United States Census American Community Survey (ACS)

**per_no_comp:** percent of households without a computer estimated by the United States Census American Community Survey (ACS)

**per_internet:** percent of households with internet access estimated by the United States Census American Community Survey (ACS)

**per_broadband:** percent of households with broadband internet access estimated by the United States Census American Community Survey (ACS)

**per_no_internet:** percent of households without internet access estimated by the United States Census American Community Survey (ACS)

**dem:** mean county elevation derived from 4km spatial resolution PRISM digital elevation model (https://www.prism.oregonstate.edu/normals/); units = meters

**precip:** 30-year normal total annual precipitation per year averaged over county extent; data from 4km spatial resolution PRISM data (https://www.prism.oregonstate.edu/normals/); units = millimeters

**tempmn:** 30-year normal mean annual temperature averaged over county extent; data from 4km spatial resolution PRISM data (https://www.prism.oregonstate.edu/normals/); units = Degrees Celsius

**tempmin:** 30-year normal minimum annual temperature averaged over county extent; data from 4km spatial resolution PRISM data (https://www.prism.oregonstate.edu/normals/); units = Degrees Celsius

**tempmax:** 30-year normal maximum annual temperature averaged over county extent; data from 4km spatial resolution PRISM data (https://www.prism.oregonstate.edu/normals/); units = Degrees Celsius

**dptmn:** 30-year normal mean dew point temperature averaged over county extent; data from 4km spatial resolution PRISM data (https://www.prism.oregonstate.edu/normals/); units = Degrees Celsius

**vpdmin:** 30-year normal minimum vapor pressure deficit averaged over county extent; data from 4km spatial resolution PRISM data (https://www.prism.oregonstate.edu/normals/); units = hectopascals (hPA)

**vpdmax:** 30-year normal maximum vapor pressure deficit averaged over county extent; data from 4km spatial resolution PRISM data (https://www.prism.oregonstate.edu/normals/); units = hectopascals (hPA)

**sol:** 30-year normal maximum vapor pressure deficit averaged over county extent; data from 4km spatial resolution PRISM data (https://www.prism.oregonstate.edu/normals/); units = hectopascals (hPA)

**per_for:** percent of county that is forested; derived from 30m spatial resolution 2019 National Land Cover Database (https://www.mrlc.gov/)

**per_dev:** percent of county that is developed; derived from 30m spatial resolution 2019 National Land Cover Database (https://www.mrlc.gov/)

**per_wet:** percent of county that is wetlands; derived from 30m spatial resolution 2019 National Land Cover Database (https://www.mrlc.gov/)

**per_crop:** percent of county that is croppland; derived from 30m spatial resolution 2019 National Land Cover Database (https://www.mrlc.gov/)

**per_past_grass:** percent of county that is grassland or pastureland; derived from 30m spatial resolution 2019 National Land Cover Database (https://www.mrlc.gov/)

**strm_length:** length of streams in county; rough estimate using data from Natural Earth (https://www.naturalearthdata.com/); units = kilometers (km)

strm_den: density of streams (length per unit area); units = kilometers per square kilometer

per_karst: percent of county underlain by karst geologic units (e.g., limestone, dolostone, carbonates, gypsum, and evaporites). Data from United States Geological Survey (USGS) (https://mrdata.usgs.gov/geology/state/)

**rail_den:** mean county density of roads estimated at a 1km spatial resolution from the United States Census Bureau TIGER database; these data were created by summarizing raster grids created by ESRI

**road_den:** mean county density of railroads estimated at a 1km spatial resolution from the United States Census Bureau TIGER database; these data were created by summarizing raster grids created by ESRI