Project 1: Wrangling, Exploration, Visualization

SDS322E

Data Wrangling, Exploration, Visualization

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Introduction Paragraph or two introducing your datasets and variables, why they are interesting to you, etc.

```
# read your datasets in here, e.g., with read_csv()
library(tidyverse)
library(readr)
library(fivethirtyeight)
data1 <- bad_drivers
data2 <- read_csv("~/project1/2021 County Health Rankings Data - v1.csv",
    skip = 1)
```

As I was looking through the different datasets, I saw the bad_drivers dataset. This was interesting because I also wanted to look at how the different factors tied into traffic deaths like speeding and the insurance costs associated with these accidents. These were interesting to me because I drive a lot in both my hometown of Houston and here in Austin. There are many times when I'll see people driving while texting or seeing news articles of people experiencing car accidents because they were under the influence or distracted while driving. Furthermore, I wanted to look at the different health indicators in each state, and how this is different. I was really interested in taking a look at how these health indicators tie into other aspects like transportation statistics. I was able to find a county dataset that essentially listed out all of the health indicators for specific counties in each state, which is under the "Count_Health_Rankings" dataset.

Some of the variables in my first dataset of "bad_drivers" include number of drivers involved in fatal collisions, percentage of those speeding, alcohol-impaired, not distracted, no prior accidents before this collision, cost of car insurance, and losses experienced by insurance companies across all 50 states. I found the "bad_drivers" dataset from the "fivethirtyeight" package. Furthermore, I wanted to tie this into how the different life stages differed across states. Some of the variables for my second dataset of "County_Health_Rankings" include life expectancy, deaths, percent of ethnicities, number of people insured, and more across counties in the 50 states in the United States. I found this dataset from Countyhealthratings.org under the Rankings data and documentation page. ****** I would expect to see that if there were more traffic accidents in one place, we may see a slight decrease/difference in life expectancy and a slight increase in death rate.

I chose the bad_drivers dataset from the fivethirtyeight package and the county health ratings from Countyhealthratings.org (under the Rankings data and document page). I wanted to look at these datasets because I am very big on keeping up with the news. One thing that I always see are news articles on drunk driving, speeding, or just not paying attention lead to people losing their lives due to these accidents. I know that these are just a few factors; therefore, I wanted to bring in the County health rankings data because the data provides more insight into the health aspect of these various counties in each state of the United States. I would expect to see that if there were more traffic accidents in one place, we may see a slight decrease/difference in life expectancy and a slight increase in death rate.

Some of the variables in my first dataset of "bad_drivers" include number of drivers involved in fatal collisions, percentage of those speeding, alcohol-impaired, not distracted, no prior accidents before this collision, cost of car insurance, and losses experienced by insurance companies across all 50 states. Furthermore, some of the variables for my second dataset of "County_Health_Rankings" include life expectancy, deaths, percent of ethnicities, number of people insured, and more across counties in the 50 states in the United States.

Expand on potential associations you may expect, if any.

```
# your joining code
joineddata <- full_join(data1, data2, by = c(state = "State"))

# your joining code
not_in_data1 <- anti_join(data1, data2, by = c(state = "State"))
not_in_data2 <- anti_join(data2, data1, by = c(State = "state"))
```

Joining/Merging I combined both of my datasets by the common variable of "states." To do this, I utilized the full_join function to retain all of my rows, which is why there was 3,193 rows, one row for each county in each state. Furthermore, the two datasets were joined by the common ID of "state." When fully joined, there were 3,193 rows with 72 columns. Before the full join, the bad_drivers dataset had 51 rows of the 50 states in the U.S. as well as D.C. with 8 variables. Also before the join, the County health ratings data had 3,193 rows, for each county in the each state of the U.S. along with 65 variables. There were 51 unique IDs, or states, for both the bad_drivers and county health rating datasets. Since both had only unique IDs of the 51 states, there were no IDs that were different from each other in both datasets. Since both datasets were joined by the common function of states, all 50 states in the United States including D.C. were included in both datasets. No observations were dropped and were actually retained by the full join function as well as the common ID being the same for each dataset. The NAs that are located in the full join and extra columns will be tidied. which will be shown above in the tidying section.

Tidying: Reshaping If your datasets are tidy already, demonstrate that you can reshape data with pivot wider/longer here (e.g., untidy and then retidy). Alternatively, it may be easier to wait until the wrangling section so you can reshape your summary statistics. Note here if you are going to do this.

```
# your tidying code (if applicable; can also wait until
# wrangling section)
clean_joineddata <- joineddata %>% select(state, num_drivers,
    perc_alcohol, insurance_premiums, County, `Life Expectancy`,
    `# Deaths`, `% Frequent Physical Distress`, `# Uninsured`,
    `Median Household Income`, `Homicide Rate`, `# Asian`, `# American Indian & Alaska Native`,
    `# Native Hawaiian/Other Pacific Islander`, `# Hispanic`,
    `# Black`, `# Non-Hispanic White`, `% Rural`)

clean_joineddata <- clean_joineddata %>% rename(DriverDeaths = num_drivers,
    AlcoholRelated = perc_alcohol, LE = `Life Expectancy`, Deaths = `# Deaths`,
    PhysicalDistress = `% Frequent Physical Distress`, Uninsured = `# Uninsured`,
    HouseholdIncome = `Median Household Income`, Homicide = `Homicide Rate`,
    Asian = `# Asian`, AmericanIndianAlaskaNative = `# American Indian & Alaska Native`,
    PacificIslander = `# Native Hawaiian/Other Pacific Islander`,
    Hispanic = `# Hispanic`, Black = `# Black`, White = `# Non-Hispanic White`,
    PercRural = `% Rural`, Premiums = insurance_premiums)

clean_joineddata <- clean_joineddata %>% group_by(state) %>%
    summarize_at(c("LE", "Deaths", "DriverDeaths", "AlcoholRelated",
        "PhysicalDistress", "Uninsured", "HouseholdIncome", "Homicide",
        "PercRural", "Premiums", "Asian", "AmericanIndianAlaskaNative",
        "PacificIslander", "Hispanic", "Black", "White"), na.rm = TRUE,
```

```
    .funs = list(mean = mean))


clean_joineddata2 <- clean_joineddata %>% pivot_longer(-1) %>%
    separate(name, into = c("name", "stat")) %>% pivot_wider(names_from = "name",
    values_from = "value") %>% select(-stat)
```

Since there were so many different variables, I wanted to just select 10 different unique variables and then variables of different ethnicities. I wanted to untidy and tidy my data first before I started on the wrangling portion, and I just wanted to clean up the names before moving on. In this case, I had to first select the columns I wanted and then remove the extraneous ones like percent of the population over 65, graduation rate, GPA, child mortality rate, infant mortality, etc. There were over 72 columns with the data joined. With this, I made a cleaner version of the joineddata (clean_joineddata). I then wanted to just make another column of whether the county was rural or not, so I mutated the % rural with the ifelse function. If the percentage was greater than 50%, I put that as rural and if it was less, than I didn't consider it to be rural. I then renamed all of the columns because I was having difficulty when it came to tidying the data with the special characters like %, _, and # signs. I then used the pivot_longer and pivot_wider functions to show that I know how to tidy. With these, I found the mean and standards of each state with just the variables of life expectancy, deaths, driver fatalities, and alcohol related traffic deaths.

```
# % of BIPOC in each county
clean_joineddata2 <- clean_joineddata2 %>% group_by(state) %>%
    mutate(`% BIPOC` = (sum(Asian, AmericanIndianAlaskaNative,
        PacificIslander, Hispanic, Black))/(sum(Asian, AmericanIndianAlaskaNative,
        PacificIslander, Hispanic, Black, White)) * 100)

clean_joineddata2 <- clean_joineddata2 %>% mutate(Diverse = ifelse(`% BIPOC` >
    50, "high", "low"))

# Summary statistics for 10 numeric variables
clean_joineddata2 %>% summarize_at(c("DriverDeaths", "AlcoholRelated",
    "Premiums", "LE", "Deaths", "PhysicalDistress", "Uninsured",
    "HouseholdIncome", "Homicide", "PercRural", "Asian", "AmericanIndianAlaskaNative",
    "PacificIslander", "Hispanic", "Black", "White"), na.rm = TRUE,
    .funs = list(mean = mean, sd = sd, max = max, min = min,
        n = n_distinct)) %>% pivot_longer(contains("_")) %>%
    separate(name, into = c("variable", "stat")) %>% pivot_wider(names_from = "variable",
    values_from = "value") %>% knitr::kable()
```

Wrangling

state	stat	DriverDeaths	AlcoholRelated	Premiums	LE	Deaths	PhysicalDistress	Uninsured	HouseholdIncome	Homicide	PercRural	Asian	AmericanIndianAlaskaNative	PacificIslander	Hispanic	Black	White
Alabama	mean	18.8	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Alabama	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alabama	max	18.8	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Alabama	min	18.8	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Alabama	n	1.0	1	1.00	[illegible]	[illegible]	[illegible]	[illegible]	1.00	[illegible]	[illegible]	[illegible]	1.0000	[illegible]	[illegible]	[illegible]	1.00
Alaska	mean	18.1	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Alaska	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alaska	max	18.1	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Alaska	min	18.1	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Alaska	n	1.0	1	1.00	[illegible]	[illegible]	[illegible]	[illegible]	1.00	[illegible]	[illegible]	[illegible]	1.0000	[illegible]	[illegible]	[illegible]	1.00

state	stat	Drivers	Alcohol	Premium	Losses	Deaths	Physical	Uninsured	Households	Homicide	Income	Asian	American Indian	Pacific Islander	Hispanic	Black	White
Arizona	mean	18.6	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arizona	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Arizona	max	18.6	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arizona	min	18.6	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arizona	n	1.0	1	1.00	1.0000	1.00000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Arkansas	mean	22.4	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arkansas	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Arkansas	max	22.4	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arkansas	min	22.4	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arkansas	n	1.0	1	1.00	1.0000	1.00000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
California	mean	12.0	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
California	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
California	max	12.0	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
California	min	12.0	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
California	n	1.0	1	1.00	1.0000	1.00000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Colorado	mean	13.6	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Colorado	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Colorado	max	13.6	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Colorado	min	13.6	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Colorado	n	1.0	1	1.00	1.0000	1.00000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Connecticut	mean	10.8	36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Connecticut	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Connecticut	max	10.8	36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Connecticut	min	10.8	36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Connecticut	n	1.0	1	1.00	1.0000	1.00000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Delaware	mean	16.2	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Delaware	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Delaware	max	16.2	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Delaware	min	16.2	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Delaware	n	1.0	1	1.00	1.0000	1.00000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
District of Columbia	mean	5.9	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
District of Columbia	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
District of Columbia	max	5.9	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
District of Columbia	min	5.9	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
District of Columbia	n	1.0	1	1.00	1.0000	1.00000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Florida	mean	17.9	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Florida	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Florida	max	17.9	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Florida	min	17.9	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Florida	n	1.0	1	1.00	1.0000	1.00000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Georgia	mean	15.6	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Georgia	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA

state	stat	[illegible]	[illegible]	[illegible]	[illegible]	Deaths	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Asian	[illegible]	[illegible]	[illegible]	[illegible]	White
Georgia	max	15.6	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Georgia	min	15.6	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Georgia	n	1.0	1	1.00	[illegible]	[illegible]	[illegible]	1.0000	1.00	[illegible]	[illegible]	[illegible]	1.0000	[illegible]	1.000	1.0000	1.00
Hawaii	mean	17.5	41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Hawaii	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hawaii	max	17.5	41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Hawaii	min	17.5	41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Hawaii	n	1.0	1	1.00	[illegible]	[illegible]	[illegible]	1.0000	1.00	[illegible]	[illegible]	[illegible]	1.0000	[illegible]	1.000	1.0000	1.00
Idaho	mean	15.3	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Idaho	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Idaho	max	15.3	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Idaho	min	15.3	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Idaho	n	1.0	1	1.00	[illegible]	[illegible]	[illegible]	1.0000	1.00	[illegible]	[illegible]	[illegible]	1.0000	[illegible]	1.000	1.0000	1.00
Illinois	mean	12.8	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Illinois	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Illinois	max	12.8	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Illinois	min	12.8	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Illinois	n	1.0	1	1.00	[illegible]	[illegible]	[illegible]	1.0000	1.00	[illegible]	[illegible]	[illegible]	1.0000	[illegible]	1.000	1.0000	1.00
Indiana	mean	14.5	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Indiana	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indiana	max	14.5	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Indiana	min	14.5	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Indiana	n	1.0	1	1.00	[illegible]	[illegible]	[illegible]	1.0000	1.00	[illegible]	[illegible]	[illegible]	1.0000	[illegible]	1.000	1.0000	1.00
Iowa	mean	15.7	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Iowa	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iowa	max	15.7	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Iowa	min	15.7	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Iowa	n	1.0	1	1.00	[illegible]	[illegible]	[illegible]	1.0000	1.00	[illegible]	[illegible]	[illegible]	1.0000	[illegible]	1.000	1.0000	1.00
Kansas	mean	17.8	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Kansas	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kansas	max	17.8	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Kansas	min	17.8	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Kansas	n	1.0	1	1.00	[illegible]	[illegible]	[illegible]	1.0000	1.00	[illegible]	[illegible]	[illegible]	1.0000	[illegible]	1.000	1.0000	1.00
Kentucky	mean	21.4	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Kentucky	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kentucky	max	21.4	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Kentucky	min	21.4	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Kentucky	n	1.0	1	1.00	[illegible]	[illegible]	[illegible]	1.0000	1.00	[illegible]	[illegible]	[illegible]	1.0000	[illegible]	1.000	1.0000	1.00
Louisiana	mean	20.5	33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Louisiana	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Louisiana	max	20.5	33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Louisiana	min	20.5	33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Louisiana	n	1.0	1	1.00	[illegible]	[illegible]	[illegible]	1.0000	1.00	[illegible]	[illegible]	[illegible]	1.0000	[illegible]	1.000	1.0000	1.00
Maine	mean	15.1	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Maine	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Maine	max	15.1	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Maine	min	15.1	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Maine	n	1.0	1	1.00	[illegible]	[illegible]	[illegible]	1.0000	1.00	[illegible]	[illegible]	[illegible]	1.0000	[illegible]	1.000	1.0000	1.00
Maryland	mean	12.5	32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Maryland	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Maryland	max	12.5	32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Maryland	min	12.5	32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

state	stat	Drivers	Alcohol	Premiums	Losses	Deaths	Physical	Uninsured	Household	Homicide	Income	Asian	American Indian	Pacific Islander	Hispanic	Black	White
Maryland	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Massachusetts	mean	8.2	35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Massachusetts	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Massachusetts	max	8.2	35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Massachusetts	min	8.2	35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Massachusetts	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Michigan	mean	14.1	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Michigan	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Michigan	max	14.1	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Michigan	min	14.1	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Michigan	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Minnesota	mean	9.6	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Minnesota	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minnesota	max	9.6	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Minnesota	min	9.6	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Minnesota	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Mississippi	mean	17.6	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Mississippi	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mississippi	max	17.6	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Mississippi	min	17.6	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Mississippi	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Missouri	mean	16.1	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Missouri	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Missouri	max	16.1	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Missouri	min	16.1	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Missouri	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Montana	mean	21.4	44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Montana	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Montana	max	21.4	44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Montana	min	21.4	44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Montana	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Nebraska	mean	14.9	35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Nebraska	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nebraska	max	14.9	35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Nebraska	min	14.9	35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Nebraska	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Nevada	mean	14.7	32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Nevada	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nevada	max	14.7	32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Nevada	min	14.7	32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Nevada	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
New Hampshire	mean	11.6	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
New Hampshire	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
New Hampshire	max	11.6	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
New Hampshire	min	11.6	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
New Hampshire	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00

state	stat	Drivers	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	White
New Jersey	mean	11.2	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
New Jersey	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
New Jersey	max	11.2	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
New Jersey	min	11.2	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
New Jersey	n	1.0	1	1.00	[illegible]	[illegible]	1.00000	1.0000	1.00	[illegible]	[illegible]	[illegible]	1.0000	1.00000	1.000	1.0000	1.00
New Mexico	mean	18.4	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
New Mexico	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
New Mexico	max	18.4	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
New Mexico	min	18.4	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
New Mexico	n	1.0	1	1.00	[illegible]	[illegible]	1.00000	1.0000	1.00	[illegible]	[illegible]	[illegible]	1.0000	1.00000	1.000	1.0000	1.00
New York	mean	12.3	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
New York	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
New York	max	12.3	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
New York	min	12.3	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
New York	n	1.0	1	1.00	[illegible]	[illegible]	1.00000	1.0000	1.00	[illegible]	[illegible]	[illegible]	1.0000	1.00000	1.000	1.0000	1.00
North Carolina	mean	16.8	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
North Carolina	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
North Carolina	max	16.8	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
North Carolina	min	16.8	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
North Carolina	n	1.0	1	1.00	[illegible]	[illegible]	1.00000	1.0000	1.00	[illegible]	[illegible]	[illegible]	1.0000	1.00000	1.000	1.0000	1.00
North Dakota	mean	23.9	42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
North Dakota	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
North Dakota	max	23.9	42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
North Dakota	min	23.9	42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
North Dakota	n	1.0	1	1.00	[illegible]	[illegible]	1.00000	1.0000	1.00	[illegible]	[illegible]	[illegible]	1.0000	1.00000	1.000	1.0000	1.00
Ohio	mean	14.1	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Ohio	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

state	stat	[illegible]	[illegible]	[illegible]	[illegible]	Deaths	Physical	[illegible]	[illegible]	[illegible]	[illegible]	Asian	American	[illegible]	[illegible]	[illegible]	White
Ohio	max	14.1	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Ohio	min	14.1	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Ohio	n	1.0	1	1.00	1.0000	1.00000	1.00000	1.0000	1.00	1.0000	[illegible]	[illegible]	1.0000	1.00000	1.000	1.0000	1.00
Oklahoma	mean	19.9	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Oklahoma	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oklahoma	max	19.9	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Oklahoma	min	19.9	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Oklahoma	n	1.0	1	1.00	1.0000	1.00000	1.00000	1.0000	1.00	1.0000	[illegible]	[illegible]	1.0000	1.00000	1.000	1.0000	1.00
Oregon	mean	12.8	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Oregon	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oregon	max	12.8	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Oregon	min	12.8	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Oregon	n	1.0	1	1.00	1.0000	1.00000	1.00000	1.0000	1.00	1.0000	[illegible]	[illegible]	1.0000	1.00000	1.000	1.0000	1.00
Pennsylvania	mean	18.2	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pennsylvania	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pennsylvania	max	18.2	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pennsylvania	min	18.2	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pennsylvania	n	1.0	1	1.00	1.0000	1.00000	1.00000	1.0000	1.00	1.0000	[illegible]	[illegible]	1.0000	1.00000	1.000	1.0000	1.00
Rhode Island	mean	11.1	38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Rhode Island	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Rhode Island	max	11.1	38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Rhode Island	min	11.1	38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Rhode Island	n	1.0	1	1.00	1.0000	1.00000	1.00000	1.0000	1.00	1.0000	[illegible]	[illegible]	1.0000	1.00000	1.000	1.0000	1.00
South Carolina	mean	23.9	41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
South Carolina	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
South Carolina	max	23.9	41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
South Carolina	min	23.9	41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
South Carolina	n	1.0	1	1.00	1.0000	1.00000	1.00000	1.0000	1.00	1.0000	[illegible]	[illegible]	1.0000	1.00000	1.000	1.0000	1.00
South Dakota	mean	19.4	33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
South Dakota	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
South Dakota	max	19.4	33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
South Dakota	min	19.4	33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
South Dakota	n	1.0	1	1.00	1.0000	1.00000	1.00000	1.0000	1.00	1.0000	[illegible]	[illegible]	1.0000	1.00000	1.000	1.0000	1.00
Tennessee	mean	19.5	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Tennessee	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tennessee	max	19.5	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Tennessee	min	19.5	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

state	stat	DriverDeaths	Alcohol	Premature	LE	Deaths	Physical	Uninsured	Household	Homicide	Income	Asian	AmericanIndian	Pacific	Hispanic	Black	White
Tennessee	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Texas	mean	19.4	38	1004.775.4824478.4617.298036708.2564793.851.37654.3631846.2212.9569										338.917965396.27063.937831.56			
Texas	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Texas	max	19.4	38	1004.775.4824478.4617.298036708.2564793.851.37654.3631846.2212.9569										338.917965396.27063.937831.56			
Texas	min	19.4	38	1004.775.4824478.4617.298036708.2564793.851.37654.3631846.2212.9569										338.917965396.27063.937831.56			
Texas	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Utah	mean	11.3	16	809.3789.3251704.3729.100040633.366796.827.500407.0551705.13334.6667										2265.2663703.4537.066250.60			
Utah	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Utah	max	11.3	16	809.3789.3251704.3729.100040633.366796.827.500407.0551705.13334.6667										2265.2663703.4537.066250.60			
Utah	min	11.3	16	809.3789.3251704.3729.100040633.366796.827.500407.0551705.13334.6667										2265.2663703.4537.066250.60			
Utah	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Vermont	mean	13.6	30	716.2709.43983.7331.6666748.13633085.827.25070041.1335.23095.4667										32.93331695.8606786.97305.20			
Vermont	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vermont	max	13.6	30	716.2709.43983.7331.6666748.13633085.827.25070041.1335.23095.4667										32.93331695.8606786.97305.20			
Vermont	min	13.6	30	716.2709.43983.7331.6666748.13633085.827.25070041.1335.23095.4667										32.93331695.8606786.97305.20			
Vermont	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Virginia	mean	12.7	27	768.9777.408423.012498507432.4092534.677.14050.15481.6695.5522										150.62687454.248361.7828.42			
Virginia	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Virginia	max	12.7	27	768.9777.408423.012498507432.4092534.677.14050.15481.6695.5522										150.62687454.248361.7828.42			
Virginia	min	12.7	27	768.9777.408423.012498507432.4092534.677.14050.15481.6695.5522										150.62687454.248361.7828.42			
Virginia	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Washington	mean	10.6	33	890.0789.993804.5510.200002405.6034075.430.478461.07353399.73309.9500										3017.454905086.052011.2570029.45			
Washington	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Washington	max	10.6	33	890.0789.993804.5510.200002405.6034075.430.478461.07353399.73309.9500										3017.454905086.052011.2570029.45			
Washington	min	10.6	33	890.0789.993804.5510.200002405.6034075.430.478461.07353399.73309.9500										3017.454905086.052011.2570029.45			
Washington	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
West Virginia	mean	23.8	28	992.6775.1751238.8929.01784648.8246672.486.388688.88725.10713.7500										18.92857112.92941.9548375.43			
West Virginia	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	max	23.8	28	992.6775.1751238.8929.01784648.8246672.486.388688.88725.10713.7500										18.92857112.92941.9548375.43			
West Virginia	min	23.8	28	992.6775.1751238.8929.01784648.8246672.486.388688.88725.10713.7500										18.92857112.92941.9548375.43			
West Virginia	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Wisconsin	mean	13.8	33	670.3779.312733.83526.0548389.2610384.95.00059.069402.16840.2192										93.671211320.70799.230315.48			
Wisconsin	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wisconsin	max	13.8	33	670.3779.312733.83526.0548389.2610384.95.00059.069402.16840.2192										93.671211320.70799.230315.48			
Wisconsin	min	13.8	33	670.3779.312733.83526.0548389.2610384.95.00059.069402.16840.2192										93.671211320.70799.230315.48			
Wisconsin	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00
Wyoming	mean	17.4	32	791.1749.37580.66617.583389.584830.755.75049.88547.58314.8333										49.66664884.05843.33340365.00			
Wyoming	sd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wyoming	max	17.4	32	791.1749.37580.66617.583389.584830.755.75049.88547.58314.8333										49.66664884.05843.33340365.00			
Wyoming	min	17.4	32	791.1749.37580.66617.583389.584830.755.75049.88547.58314.8333										49.66664884.05843.33340365.00			
Wyoming	n	1.0	1	1.00	1.0000	1.0000	1.00000	1.0000	1.00	1.0000	1.0000	1.0000	1.0000	1.00000	1.000	1.0000	1.00

```r
# Some more summary statistics for my variables
clean_joineddata2 %>% summary(is.numeric)
```

```
##      state                 LE            Deaths          DriverDeaths
##  Length:51          Min.   :74.15   Min.   : 324.6   Min.   : 5.90
```

```
##  Class :character   1st Qu.:77.04   1st Qu.: 1240.8   1st Qu.:12.75
##  Mode  :character   Median :78.42   Median : 2218.4   Median :15.60
##                     Mean   :78.19   Mean   : 3232.9   Mean   :15.79
##                     3rd Qu.:79.40   3rd Qu.: 4219.3   3rd Qu.:18.50
##  AlcoholRelated  PhysicalDistress   Uninsured       HouseholdIncome
##  Min.   :16.00   Min.   : 9.00    Min.   :  248.1   Min.   :41754
##  1st Qu.:28.00   1st Qu.:11.59    1st Qu.: 1030.0   1st Qu.:51664
##  Median :30.00   Median :12.99    Median : 1715.5   Median :58569
##  Mean   :30.69   Mean   :13.11    Mean   : 2690.1   Mean   :59998
##  3rd Qu.:33.00   3rd Qu.:14.57    3rd Qu.: 3078.1   3rd Qu.:64772
##     Homicide        PercRural        Premiums          Asian
##  Min.   : 1.714   Min.   : 0.00   Min.   : 642.0   Min.   :   345
##  1st Qu.: 3.125   1st Qu.:43.93   1st Qu.: 768.4   1st Qu.:  1901
##  Median : 5.250   Median :54.53   Median : 859.0   Median :  5800
##  Mean   : 5.766   Mean   :51.91   Mean   : 887.0   Mean   : 19619
##  3rd Qu.: 7.093   3rd Qu.:66.29   3rd Qu.:1007.9   3rd Qu.: 16595
##  AmericanIndianAlaskaNative PacificIslander      Hispanic
##  Min.   :  163.8            Min.   :   18.93   Min.   :  1113
##  1st Qu.:  756.1            1st Qu.:   94.72   1st Qu.:  5556
##  Median : 1760.9            Median :  175.29   Median : 12454
##  Mean   : 3917.9            Mean   : 1540.42   Mean   : 48860
##  3rd Qu.: 3973.8            3rd Qu.:  716.53   3rd Qu.: 50897
##      Black              White             % BIPOC         Diverse
##  Min.   :   202.3   Min.   : 21524   Min.   : 5.512   Length:51
##  1st Qu.:  2847.1   1st Qu.: 63476   1st Qu.:19.323   Class :character
##  Median : 15211.2   Median :113526   Median :27.949   Mode  :character
##  Mean   : 34948.7   Mean   :166065   Mean   :31.110
##  3rd Qu.: 41505.8   3rd Qu.:231980   3rd Qu.:41.914
##  [ reached getOption("max.print") -- omitted 1 row ]
```

```r
clean_joineddata2 %>% group_by(state, Diverse) %>% summarize(HouseholdIncome = mean(HouseholdIncome)) %
    arrange(desc((HouseholdIncome)))
```

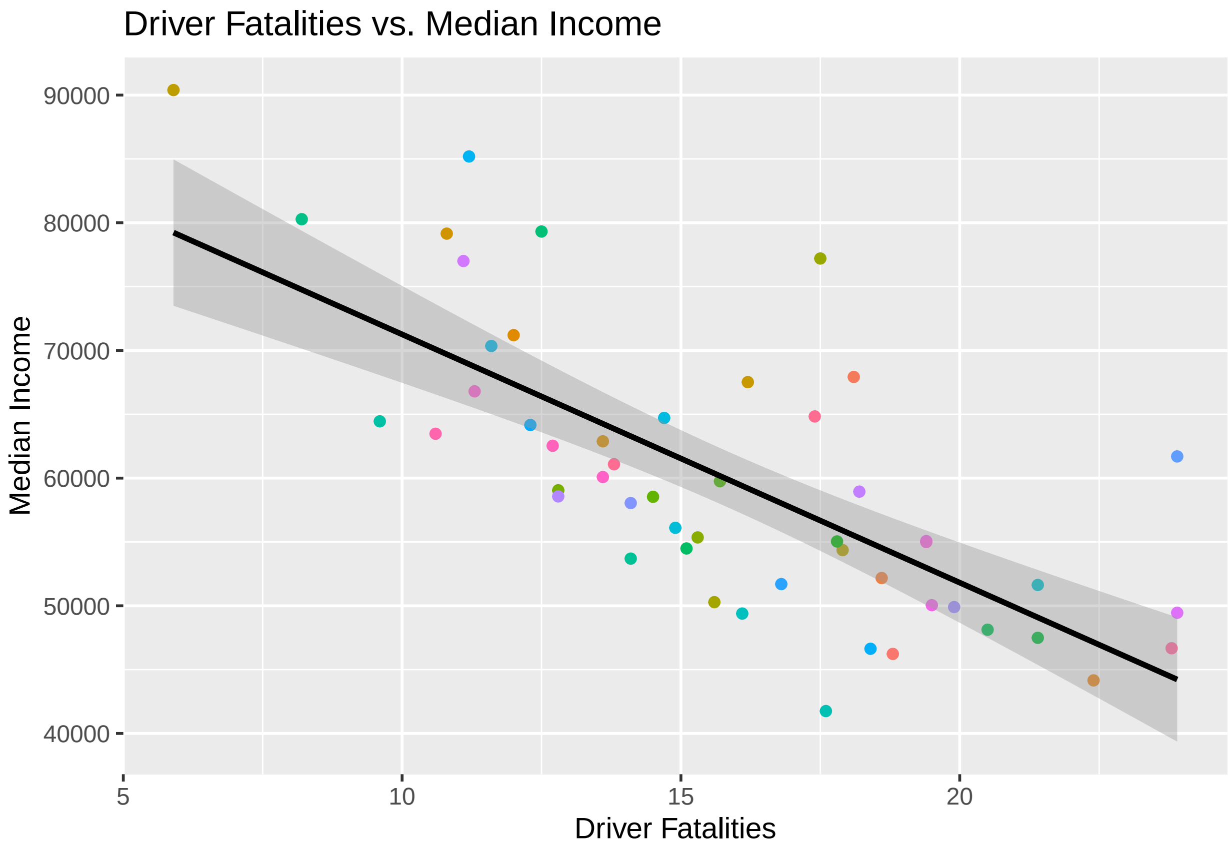
```
## # A tibble: 51 x 3
## # Groups:   state [51]
##    state                Diverse HouseholdIncome
##    <chr>                <chr>             <dbl>
##  1 District of Columbia high             90395
##  2 New Jersey           low              85193.
##  3 Massachusetts        low              80279.
##  4 Maryland             low              79316.
##  5 Connecticut          low              79151.
##  6 Hawaii               high             77203.
##  7 Rhode Island         low              77003.
##  8 California           high             71197.
##  9 New Hampshire        low              70350
## 10 Alaska               low              67924.
## # ... with 41 more rows
```

```r
clean_joineddata2 <- clean_joineddata2 %>% mutate(Rural = ifelse(PercRural >
    50, "yes", "no"))
```

Your discussion of wrangling section here. Feel encouraged to break up into more than once code chunk and discuss each in turn.

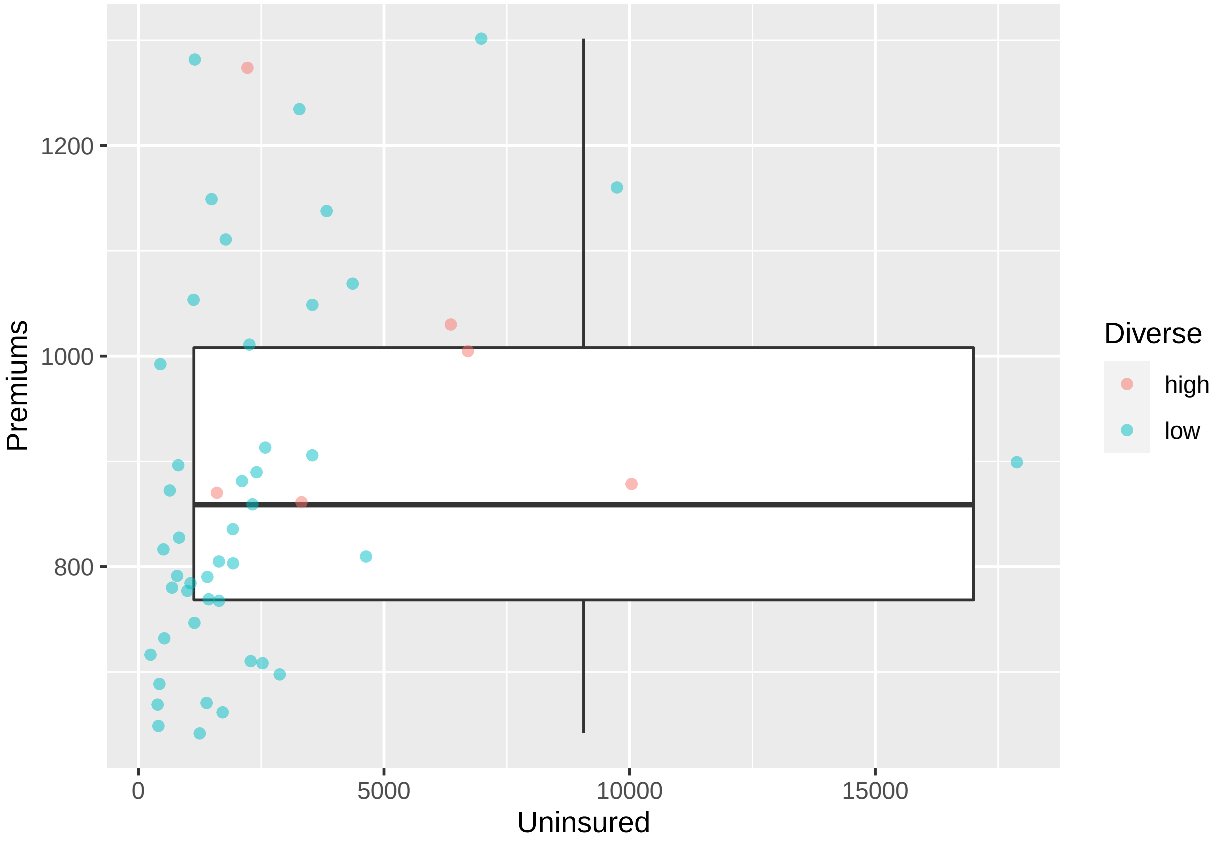
```
# Plot of driver fatalities vs. median household income
clean_joineddata2 %>% ggplot(aes(x = DriverDeaths, y = HouseholdIncome)) +
    geom_point(aes(color = state)) + geom_smooth(method = "lm",
    color = 1) + scale_x_continuous(breaks = seq(0, 25, 5)) +
    scale_y_continuous(breaks = seq(0, 1e+05, 10000)) + ggtitle("Driver Fatalities vs. Median Income")
    xlab("Driver Fatalities") + ylab("Median Income") + theme(legend.position = "none")
```

Visualizing



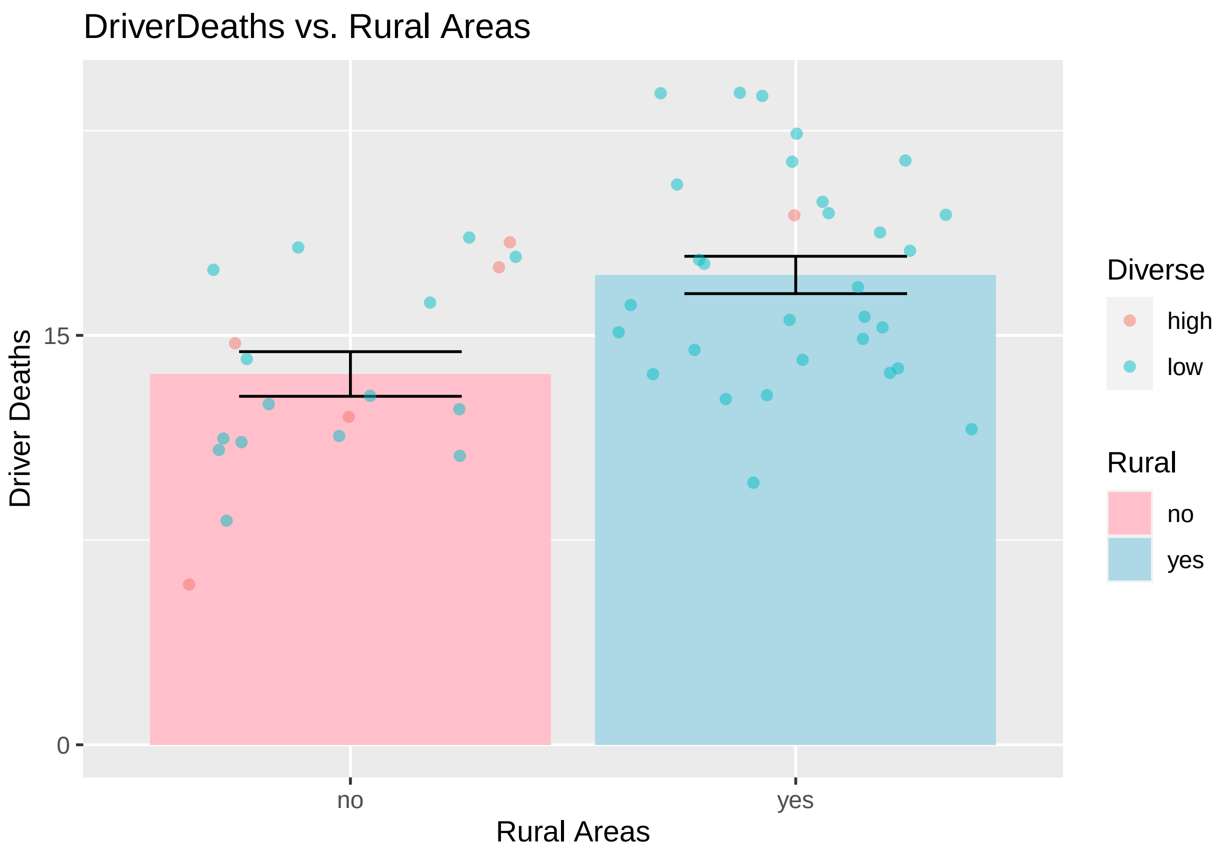
For the first ggplot, we're looking at the relationship between the number of drivers that have died from a car accident and median household income in each of the 50 U.S. states.

```
# Plot of driver fatalities in each state in the United
# States
clean_joineddata2 %>% ggplot(aes(x = Uninsured, y = Premiums)) +
    geom_boxplot() + geom_jitter(alpha = 0.5, aes(color = Diverse))
```



Your discussion of plot 2

```
# your plot 3
clean_joineddata2 %>% ggplot(aes(x = Rural, y = DriverDeaths)) +
    geom_bar(aes(fill = Rural), stat = "summary", fun = mean) +
    ggtitle("DriverDeaths vs. Rural Areas") + geom_errorbar(stat = "summary",
    width = 0.5) + xlab("Rural Areas") + ylab("Driver Deaths") +
    scale_fill_manual(values = c("pink", "light blue")) + scale_y_continuous(breaks = seq(0,
    85, 15)) + geom_jitter(alpha = 0.5, aes(color = Diverse))
```



Your discussion of plot 3

Concluding Remarks If any!