Population statistics

AGRON 5130

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Question 1

Load the shapefile "data/elkhart_ia_yield_map/elkhart_ia_yield_map.shp" using the *st_read()* function, and assign it to the data frame "soybean"

Question 2

Review the structure of the "soybean" data frame using the *head()* function.

Question 3

Plot the yield map using the *plot()* function. Remember you need to designate the column to plot.

Question 4

Create a histogram of the yield using the *hist()* function.

Question 5

Calculate the mean yield.

Question 6

Calculate the median yield

Question 7

Calculate the standard deviation for yield.

Question 8

Load the planting map "data/moline_il_planting_map/moline_il_planting_map.shp".

Question 9

Inspect the data using the *head()* function.

Question 10

Map the column "AppldRt", which measures the actual planting rate.

Question 11

Create an histogram for the actual planting rate using the *hist()* function.

#Question 12 What was the mean actual planting rate?

Question 13

What was the minimum actual rate planted?

Question 14

The standard deviation can be used to gauge the consistency of the planting rate. What was the standard deviation of the actual planting rate?