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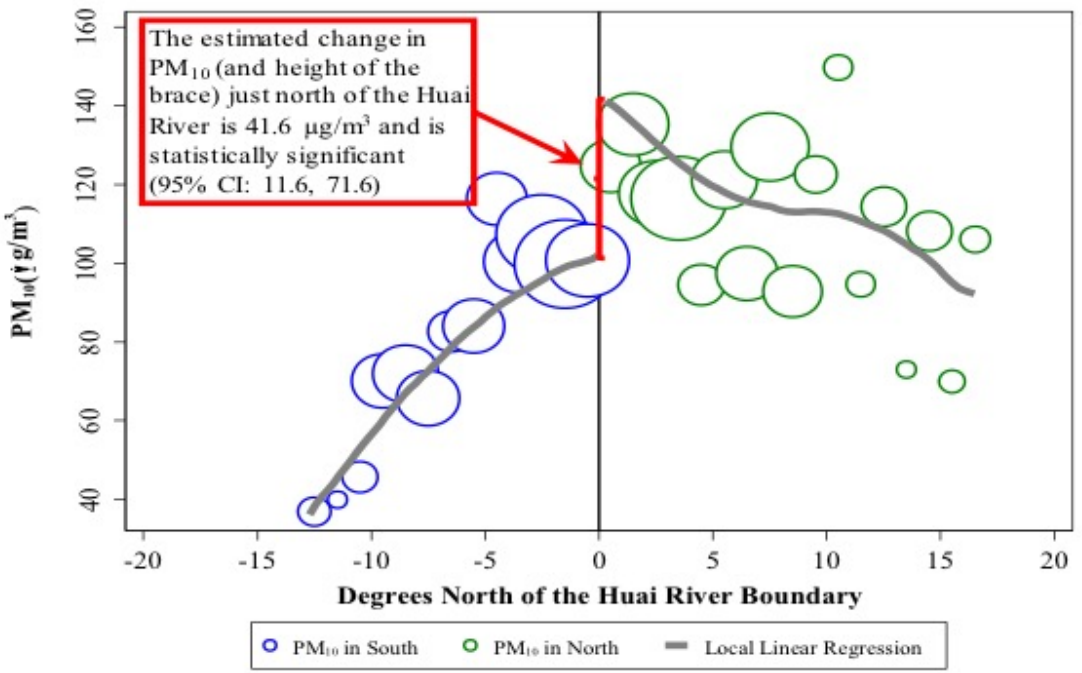
Question 1

(1/1 point)

Fill in the blank, based on the two-dimensional depiction of the difference in pollution levels to the North and South of Huai River shown below. The Huai River boundary itself is depicted by _____, particular matter levels to the North of the Huai River are depicted by _____, and particulate matter levels to the South of the Huai River are depicted by _____.

Figure 2

Particulate Matter Levels (PM_{10}) South and North of the Huai River Boundary



Notes : Each observation (circle) is generated by averaging PM_{10} across the Disease Surveillance Point locations within a 1 degree latitude range, weighted by the population at each location. The size of the circle is in proportion to the total population at DSP locations within the 1 degree latitude range. The plotted line reports a local linear regression plot estimated separately on on each side of the Huai River.

- a. The grey lines; all points above the grey lines; all points below the grey lines

b. The grey lines; all green bubbles; all blue bubbles

c. The vertical black line; all points above the grey lines; all points below the grey lines

d. The vertical black line; all green bubbles; all blue bubbles ✔

EXPLANATION

The diagram shown in class provides a wealth of insightful and relevant information in a relatively small space. The river itself is represented by the vertical line at 0 degrees of the Huai River Boundary. The blue bubbles to the left of the vertical line represent average levels of PM10 to the South of the Huai River Boundary, while the green bubbles represent average levels of PM10 to the North of the Huai River Boundary. In each case, the size of the bubble represents the size of the population in each location. The grey lines represent the relationship between distance from the Huai River boundary and particulate matter, with the only assumption about the structure of their relationship being that there may be a difference in the structure of the relationship among points to the North and points to the south of the river boundary

You have used 1 of 2 submissions

Question 2

(1/1 point)

True or false: The research presented in class indicates that there was a significant difference in the level of particulate matter on each side of the Huai River boundary.

- a. True ✔
- b. False

EXPLANATION

True. The graph of Particulate Matter Levels (PM10) comparing areas to the North and to the South of the Huai River shows a distinct jump. Similarly, the graph of life expectancy comparing areas to the North and South of the river also show a distinct jump at the Huai River Boundary.

You have used 1 of 1 submissions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