

Week 6 Report

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This project uses data from the CDC and includes two variables: distance from lead smelter to the subject's home (near = ≤ 1 mile, far = > 1 mile) and IQ score. **Figure 1** depicts the distributions of IQ scores for those living near and those living far from the smelter. The group living further from the smelter has a higher average IQ than those living near the smelter.

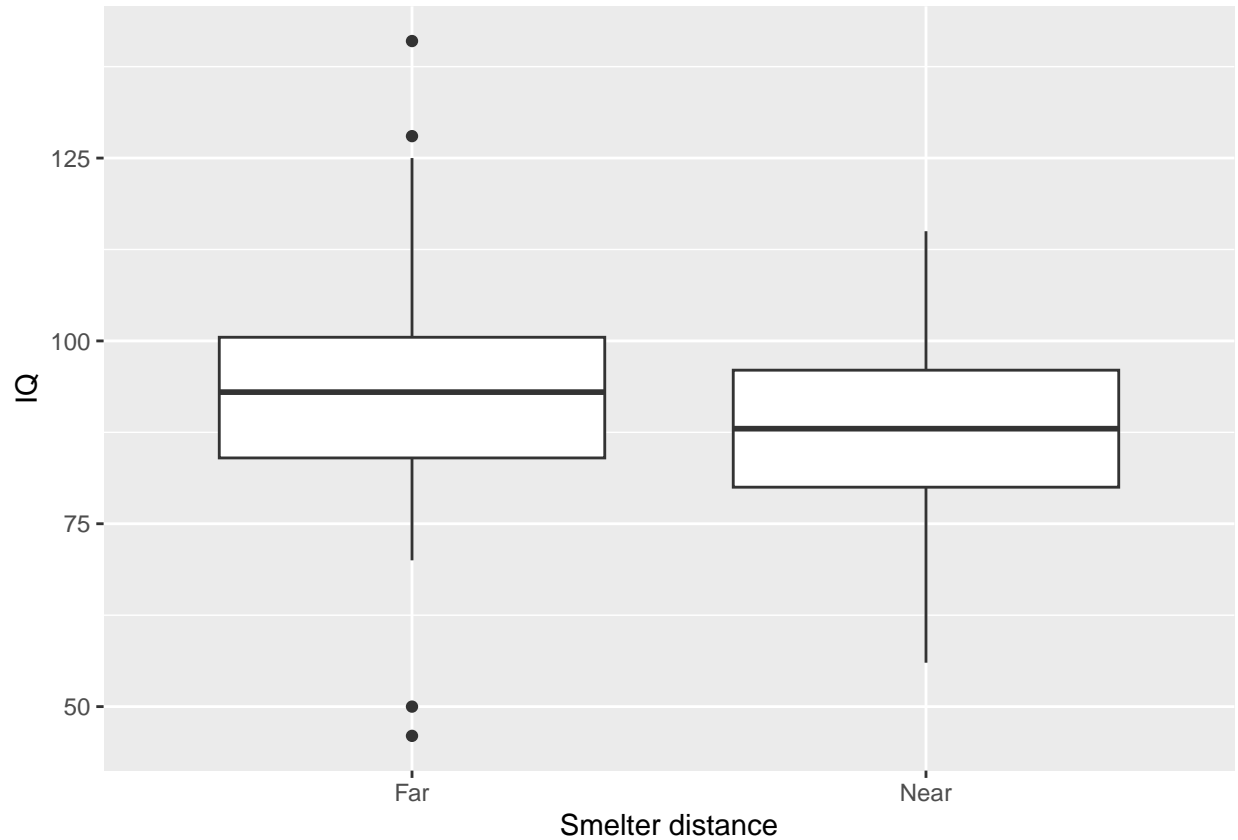


Figure 1: Distribution of IQ score by distance from lead smelter

Table 1 presents summary statistics of IQ scores by proximity to the lead smelter. Those living near the smelter had a mean IQ of 89.19 (SD: 12.17) and those living far had a mean IQ of 92.69 (SD: 15.97).

Table 1: Summary statistics of IQ scores by proximity to lead smelter

Smelter location	n	Mean	Median	SD
Far	67	92.69	93	15.97
Near	57	89.19	88	12.17