

New Haven Connecticut 1912-1971

OBJECTIVE

I will be evaluating data for temperatures in New Haven, Ct for 59 years, specifically analyzing the data for the first 25 years versus the last 25 years.

BRIEF

Today I will be using a Dependent t-Test to determine if there are any significant differences in temperatures over the years, or if things are about the same.

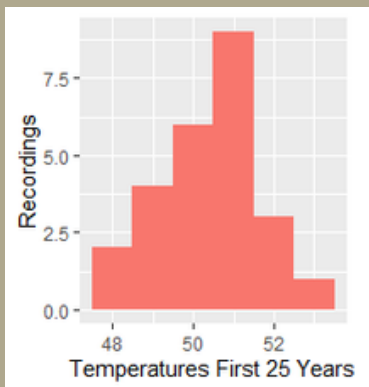
HYPOTHESIS

My null hypothesis is that things are the same and temperatures have not changed over the years, My alternative hypothesis is that CLIMATE CHANGE IS REAL and there is a significant difference.

pvalue +.06%

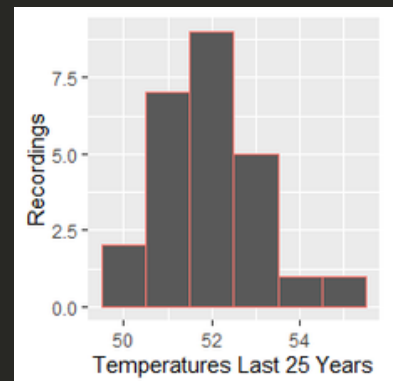
First 25 Years

Lowest Temp Recorded	1st Quartile
47.90	49.60
Middle Temp Recorded	Average Temp
50.60	50.42
Highest Temp Recorded	3rd Quartile
52.80	51.10



Last 25 Years

Lowest Temperature Recorded	1st Quartile
50.2	51.3
Middle Temp Recorded	Average Temp
51.8	51.9
Highest Temp Recorded	3rd Quartile
54.6	52.6



CONCLUSION

We can see from the information provided that CLIMATE CHANGE and GLOBAL WARMING are REAL. The Highest recordings are about **51** degrees in the first **25** years, and the last **25** years have the highest recordings of around **52** degrees. The sample mean difference is **-1.484**. Based on the p-value above, I reject the null hypothesis and accept the alternative hypothesis. Hide you kids and pets, it's getting hot in here!