

Boil, Boil, Toil and Trouble: The International Boiling Point Project

As we ventured through the various Boiling Points the schools came up with, we discovered that the multitude of variable changes the solution and overall boiling point. After looking over a report sent in by about 90 schools, we took the mean of boiling points and placed them with their corresponding subdivisions. For instance, we had 53 schools verify that they used Hot Plates. We then took the averages of the boiling point temperatures recorded for the hot plates and compared them to the average boiling points of the other heating devices.

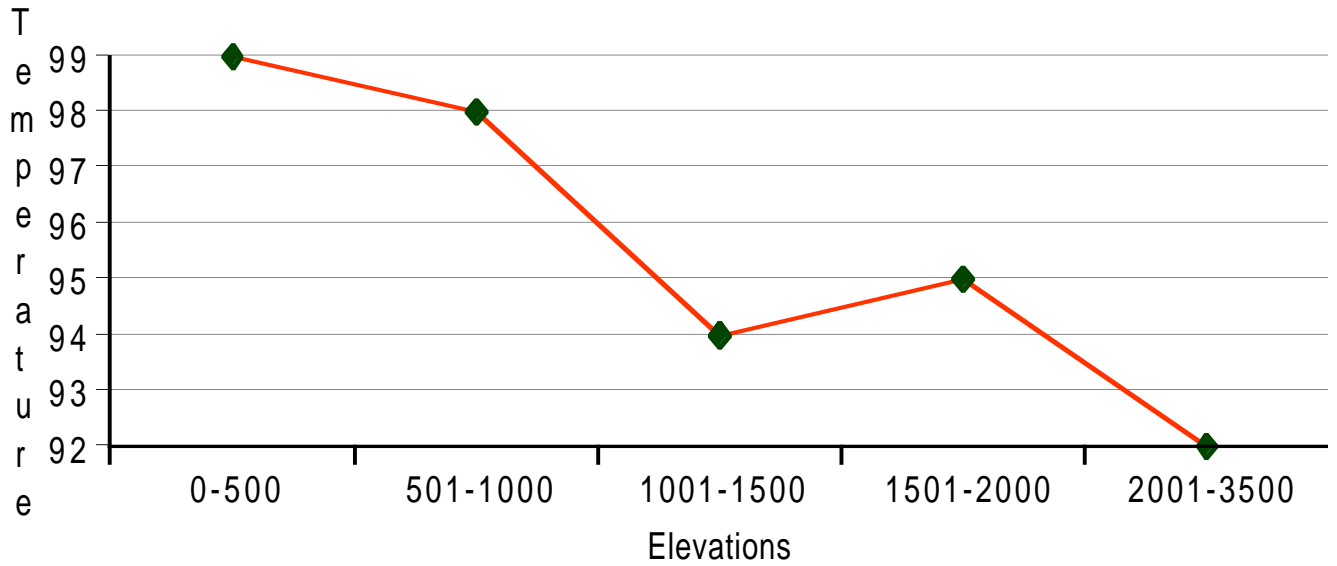
The conclusion that we reached was that heating devices made had the biggest change. The elevation also had a big differences in the lowest and highest temperatures. We found that the Alcohol Lamp was the most accurate heating device, that 350 mL of water had the most accurate water volume, that from 0-500 meters in elevation was the most accurate in elevation, and that and that if the room temperature is from 26-30, you get the most accurate results. What we would do differently next time is use more that 4 people to get the averages!!

We hope you enjoyed giving this project as much as we enjoy doing it. We hope you enjoy our results. We have graphs attached for you personal enlightenment. Thank you for your time and consideration!

~The Show Low Junior High

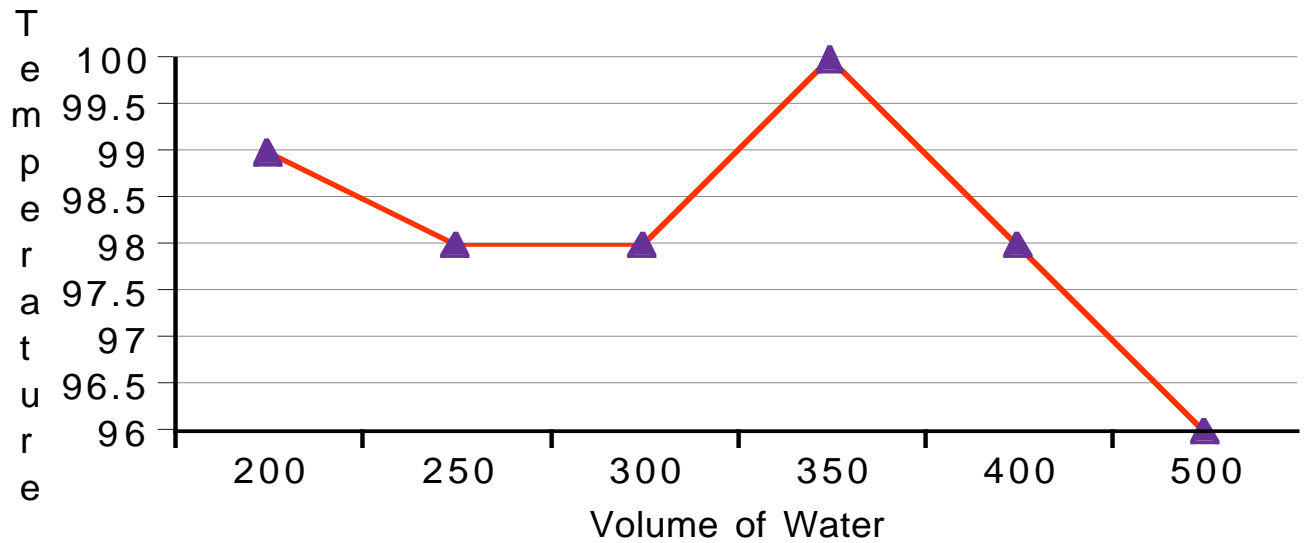
Boiling Points and Elevations

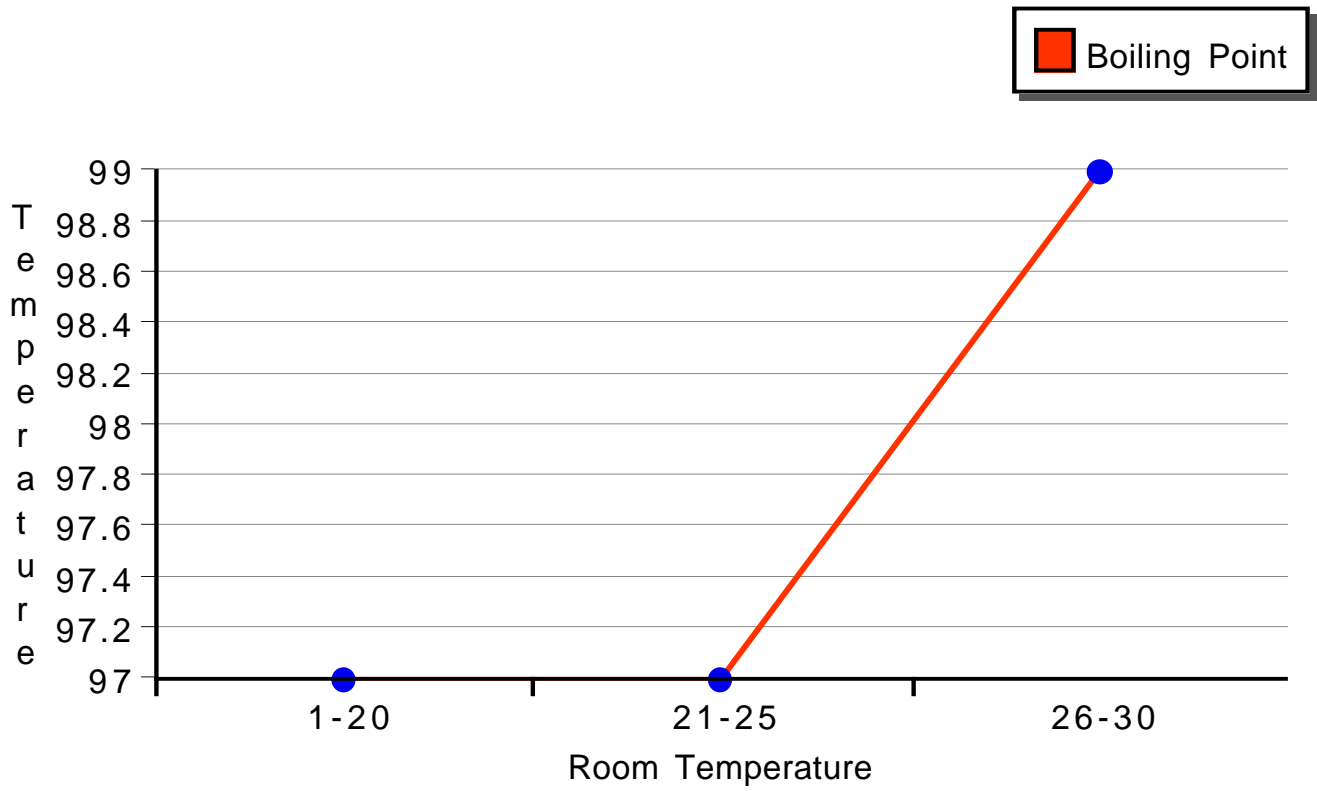
Boiling Points



Boiling Point and Volume of Water

Boiling Point





Boiling Point and Heating Device

