**Is Tree growth and development affected by climatic patterns? - Bio2H**

**Introduction:** In this long term inquiry you will contribute to a year-to-year data set that analyzes a possible relationship between the tree life cycle and climate change. You will perform the important role of selecting branch’s to study over the coming years.

**Flagging protocol:**

* Find the branch you originally marked with your twist tie. Insure that it is a health branch that is accessible and with in easy view. If not select a new branch. Ideally the branch should still contain green leaves.
* The branch should have several leaves. Place the twist tie about 0.5 meters back from the tip, you want around 6 leaves not including the terminal leaves (ones extending from the tip of the branch.)

**Data collection check list:**

* Make an accurate sketch of your branch
* In your drawing number the leaves on the branch.
* Date you entry and indicated the species of the tree (if you know it at this time).
* Measure the length and width of the leaves in cm.
* Measure the distance between leaves in cm, include the distance to the tip of the branch.
* Record the color of each of the leaves and rate them on the following scale (1=fully green leaf, 2= about 25% color change, 3 = about 50% color change, 4 = about 75% color change or 5= full change).
* Record any budding and include in the sketch
* **Record climate** below on each data collection day
  + temperature
  + cloud cover
  + precipitation
  + wildlife observations
  + any unusual conditions or recent events (such as a strong windstorm or frost/freeze)