Plants and Human Affairs – Biol106 name _____

Leaf Margins as Climate Indicators: Pre-Lab Exercises

1. Print, read, and bring to class a copy of the lab handout and post-lab exercise.

2. Complete Table 1 by locating the data for our area for mean annual temperature (MAT) and mean annual precipitation (MAP). These data can be obtained from a variety of web-based sources such as the Midwest Regional Climate Center (http://mcc.sws.uiuc.edu/; click on: Climate of the Midwest/Climate Summaries). If you need to convert unit, there are many that can help.

Table 1. Climate Data for Central Minnesota		
MAT	deg F	deg C
source:		
if web site, date accessed:		

3. Complete Table 2 by calculating the predicted percentage of leaves of deciduous woody trees in our area with entire leaves using the three temperature models. Then, calculate the mean predicted percentage of leaves with entire margins.

Table 2. Predicted % of woody species in central Minnesota with entire leaf margins	
Model	**Predicted % with entire leaves**
Equation 1	
Equation 2	
Equation 3	
Mean	

4. Calculate the predicted mean percentage of woody species with serrate margins _____.