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*pH Level Of Soil: A Study Of How pH Levels Affect Vegetation*

The purpose of this project is to test the pH levels of soil and evaluate the vegetation grown within the tested area. I wanted to know, if you were to grow a garden, what pH level should you have so you have a lesser chance of dealing with weeds, so you get better plant growth. I am using this study to inform farmers, gardeners, and people that grow vegetation for animals, so they can evaluate their soil and determine the best area to grow vegetation. First I started this project by choosing different places around my home with different types of vegetation. I analyzed a 1 foot by 1 foot area in each land site to take data from. Next I dug a 2 inch deep hole in my 1 foot by 1 foot area. Then I used the pH level tester and tested the soil and recorded the results. I then took measurements of the plants and looked for any detrimental plants like weeds or noxious plants. Lastly, I evaluated the soil and its condition to see if there was a difference in the soil. I then compared the soils pH levels. My results indicated that my hypothesis was supported. In plots B (6.60 pH) and C (6.41) the vegetation was palatable and growth was better than site A (7.54). The pH levels varied within the sites and the vegetation differed as well. In conclusion, this experiment gives light into the importance of pH levels on vegetation growth.