Pu'u Pili

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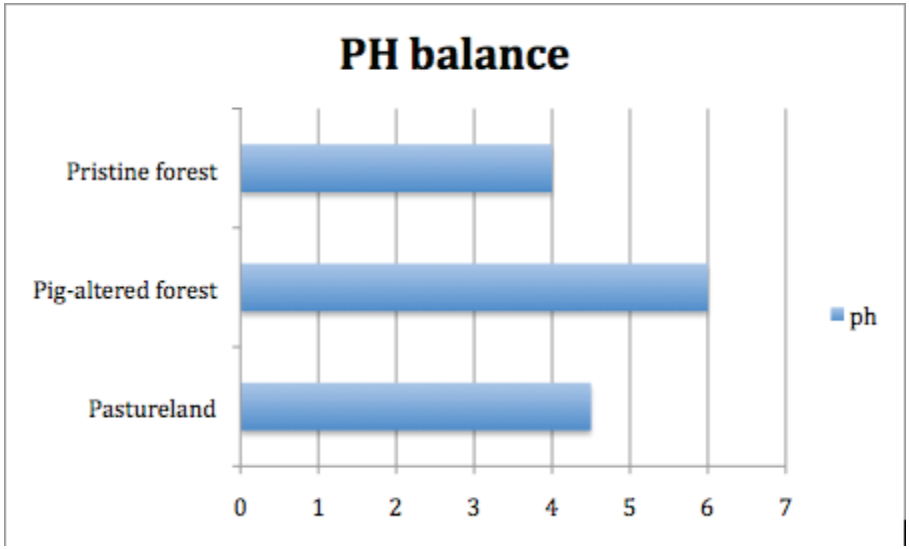
Purpose

- Do the nutrients of soil vary in pastureland, pig-altered forest and pristine forest?

Procedure

- 1. Go to pastureland
- 2. Move away any vegetation
- 3. Take soil two inches down
- 4. Follow directions for each nutrient test
- 5. Read/record test
- 6. Repeat steps 2-5 for pig altered forest
- 7. Repeat steps 2-5 for pristine forest

Data



Location	ph	Nitrogen	Potash	Phosphorus
Pastureland	4.5	None	Medium-low	Little more than trace
Pig-altered forest	6	Less than trace	Very high	Low
Pristine forest	4	None	Low	none

Conclusion

The pristine forest had the lowest amount of nutrients in the soil, which means that our hypothesis was right. The pastureland and the pig-altered forest had the highest amount of nutrients. If I did this again I would do an experiment that tells what might have caused the certain amount of nutrients in each type of soil. While in the field Melora Purrel, our lead scientist, taught us that the reason there were very low amounts of nitrogen in all three types of soil was because of the rain. The soil is very old and it has experienced a lot of rain. The rain-washes away nutrients and the nitrogen is the first nutrient to get washed away. If We did the experiment again I think that we would do the experiment in several different places within the area we tested(i.e. pig-altered forest).

Dirt!

Pastureland

Pig-altered forest

Pristine forest

What we learned

- We learned why in certain areas there is a low amount of nutrients.
- We learned what might increase the nutrients in soil.
- And lastly we learned in order to produce a successful experiment you need to work together as team.

The end!

- Hope you guys learned a lot about Pu'u Pili and soil!