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Soaking It Up Soil Style

Are your wallets suffering through a drought? Are you losing money on watering your crops and lawns? What if there was a certain type of soil that could save your lawns and crops, but still save your money? Well, the answer to that would be a mixture of soils, not just one. The science experiment that I performed was finding how to keep your soil from having bad porosity. Porosity is the measure of how much moisture is retained within a certain type of soil. The soils that I tested were silt (21.92%), alkali (11.93%), sandy grit (30.58%), and a common grey (26.68%). I used the same procedure to test all of my soils. Most soil in the San Luis Valley is a very common soil that is grey in color when it is dry. Based upon the results of my experiment, I know that if I want to have the best water absorption and retention in my soil, I would use a combination of common grey with silt. This combination will make a soil that has the best water absorption and retention because common grey has the best absorption rate and silt retains the water for the longest time. With this, I proved my hypothesis partially correct. The part that I proved correct is that silt would have the best water retention. I also hypothesized that silt would also have the best water absorption, but the common grey actually had the best.