



**CALIFORNIA STATE SCIENCE FAIR
2008 PROJECT SUMMARY**

Name(s) Heidi A. Hennesay	Project Number J0708
Project Title The Effects of Various Irrigation Systems in Maintaining Water Moisture in Different Soils	
Abstract Objectives/Goals The purpose of my science project is to determine which type of irrigation benefits different types of soils. The reason I am doing this investigation is to help farmers or gardeners decide which type of irrigation will help the plants grow better. Methods/Materials I will take 9 plastic boxes and fill three of them with clay, three with loam, and three with sand. Each set of three boxes will be irrigated with different irrigation processes. Each process is used ,with each type of soil. I will make sure all 9 boxes are watered with the same quantity of water. One hour after irrigation I will take a moisture reading form each box. I will then repeat moisture readings every 12 to 24 hours for the next week. I will compare and chart the moisture readongs by soil type and irrigation type. Results After completing my investigation, I found that my hypothesis was correct. My hypothesis stated that the subsurface drip in clay would have the most moisture in the clay. The highest reading was the clay sub drip, which was at a four. The first clay sub drip reading was a ten. That means that the sub drip clay dropped a whole six readings. The lowest moisture was the spray in all three soils. The highest and lowest moisture readings were three readings apart. Conclusions/Discussion In conclusion, the subsurface drip would be the best choice for watering your plants. Farmers and gardeners will benefit from using the sub drip to water their plants becuae it saves water.	
Summary Statement I am testing to see which irrigation system promotes moisture in different types of soils.	
Help Received My dad helped to collect the soil and some of the materials.	