Team ID: THS-31

School Name: Taos High School

Area of Science: Environmental/Earth Science

Project Title: Water Use Optimization With Organic Mulch

Project Proposal Body:

We will calculate the optimal amount of mulch to reduce water costs. The project will use machine learning to find calculate weather statistics. The machine learning will be done in Python. The rest of the model will be done in MATLAB. To allow for the high number of calculations required to accurately determine the water use, the code will be run on Amazon Web Services, EC2 compute cloud. The code will output scatterplots, which will then be used to find lines of best fit and will be combined with cost lines to calculate for the minimum cost achievable.

Team Members

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Sponsoring Teacher(s)

Tracy Galligan

Project Mentor(s)

Gregory Rael