

Proposal Template

Team Number: Leave blank for now

School Name: Twin Buttes HS

Area of Science: Environmental Science

Project Title: How will global climate change affect the Pueblo of Zuni?

Our project will examine the physical changes that may occur due to global climate change and propose possible adaptations in the Zuni Reservation area. Global climate change is predicted to influence temperatures, amount of rainfall, weather patterns and other physical conditions. It is important to try to predict possible outcomes of these changes so people can prepare for them.

Traditionally, the Zuni people have depended on rainfall and irrigation from the Ojo lake for gardening and range vegetation. Keeping the browse on grazing lands is especially important for sheep and cattle owners, who depend on ranching as a major source of income. Additionally, many Zunis raise gardens for vegetables for table use and ceremonial purposes. Climate change threatens these lifestyles, here and elsewhere.

We will use weather and climate data from the past 50 years to build a model of impacts on the Zuni reservation. With this model, we will run simulations using temperature change and finding the possible impact on water availability and vegetation. We will use our findings to seek ways for the Zuni people to adapt to the coming changes.

Team Members

- Aaron Halusewa
- Jayce Mahooty
- Dahpne Quetawki
- Natasha Peyketewa

Sponsoring Teacher(s)

- Kathleen Trujillo

Project Mentor(s)

- Put Mentor Name Here
- Put Mentor Name Here