

Team:

School: New Futures School

Project title: Floating Balls and Channels

Area of Science: Biology/ Environmental Science

Definition of the problem:

In last year's problem we researched shadow balls and how they improve evaporation levels in the bodies of water that they are being used in. We are experimenting to learn and model the best way to reduce evaporation rates in Cochiti Lake. We understand that, in drought years, 78% ⁽¹⁾ of water used in New Mexico is used for farming. Cochiti Lake is a large body of water, in which we can easily model and use to help reduce the levels of evaporation.

Our plan for solving the problem computationally:

As of last year's work in the Supercomputing Challenge we decided to use NET LOGO. This year we will work on demonstrating wind factors (Speed, Direction, etc...), barriers and demonstrating HOW evaporation is reduced, by a visual model. We will also incorporate new discoveries that we encounter or that would be considered a natural barrier.

The results we expect:

After researching, modeling, and comparing results for this project, we expect to gain knowledge on an effective and efficient way to decrease the levels of evaporation in Cochiti lake.

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